

TravelMatch
Software User Manual
Version 1.0

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Abstract

This document contains the Software User Manual for the TravelMatch application, which is used to help people find their holiday destination. This application is developed in the Software Engineering Project at Eindhoven University of Technology. This document complies with the ESA software engineering standard [1].

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General

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Chapter 1

Introduction

1.1 Purpose

This document contains the Software User Manual of the TRAVELMATCH application. The purpose of this manual is to let possible users easily understand and use the TRAVELMATCH application in finding their next holiday destination.

Moreover we wrote a manual to the content management system users as well, so the administrators can easily understand how to operate with the database via the graphical user interfacier we provided.

1.2 Definitions and abbreviations

1.2.1 Definitions

Affiliate Network	A network that enables you to receive money from customer redirection [18]
Analytics Data	The log of analytics events that is recorded and stored on the database.
Android	A popular open-source operating system for embedded devices, including smartphones and tablets, created by Google.
Angular JS	An open-source web application framework maintained by Google.
Cosine similarity	A measure of similarity between two vectors of an inner product space that measures the cosine of the angle between them.
Destination advice	The city, and selection of hotels, that is advised to a user after performing one or more interest analyses.
<i>Destination attributes</i> or tags	Each destination will have one or more <i>destination attributes</i> with an associated numerical relative value, those attributes cover the same preferences as the <i>DNA attribute</i> .
<i>DNA attribute</i> or tags	These are the attributes that the client wants to use to compose the DNA of. In the beginning 10 attributes are chosen and each image shall have a relative numerical value on one or more of the attributes. Attributes can be added or removed later for new and existing images and DNA.
Google Play Store	A public repository of free and paid apps for Android, managed by Google.
Guest user	An user that does not provide login details but still uses the TravelMatch app.
Hotelstars rating	A hotel classification with common criteria and procedures in participating countries to rate a hotel's quality. See [21].
iLysian	Short for iLysian B.V., a software engineering company situated in Eindhoven, Netherlands. The client for the TravelMatch project.
Interest analysis	The action the user will do of judging the images.
iOS	A popular closed-source operating system for smartphones and tablets created by Apple.
iOS App Store	A public repository of free and paid apps for iOS, managed by Apple.

JWT	JSON Web Token: a compact URL-safe means of representing claims to be transferred between two parties, and used in TravelMatch as authentication token, since it is self-validating.
Relational database management system (RDBMS)	A database management system (a piece of computer software that interacts with users, other applications and a database to capture and analyze data) based on the relational model (commonly based on the relational database model)
TCP/IP	A computer networking model and set of communication protocols used on the internet and similar computer networks, including the Transmission Control Protocol (TCP) and the Internet Protocol (IP)
Tinder	A popular dating application for smartphones and tablets featuring a swipe based interface, where a swipe to the left indicates a dislike and a swipe to the right indicates a like.
<i>Travel DNA</i>	A collection of information about vacation preferences of a specific user or, more specifically, one vacation of that user. This information is stored on the server in a table with values representing the respective gain per attribute for each image the user has swiped.
TravelMatch	An application for smartphones and tablets that assists users in planning a vacation. The subject of this project.
TravelMatch team	A team of Computer Science students at Eindhoven University of Technology who will design and implement the TravelMatch application.
User	The user of the app.
<i>Waverunner</i>	Waverunner Search Service by Pyton Communication Services; a search service that provides vacation offers and prices of participating travel agencies.

1.2.2 List of abbreviations

GUI	Graphical User Interface
CMS	Content Management System
API	Application Programming Interface
URL	Uniform Resource Locator

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Chapter 2

Overview

TRAVELMATCH is an application designed for the mobile devices such as smartphones and tablets. It is conceived by iLysian B.V. and developed by the TRAVELMATCH development team. The purpose of the application is to assist users in planning a vacation by showing them images from various destinations and hotels or other places to stay. The application employs machine learning and some simple web analytics to build a profile of the user in order to suggest the ideal trip.

Chapter 3

Tutorial for CMS

3.1 Overview

This chapter contains tutorials for CMS users, as the CMS users needs to know how to operate for varies of entries.

Table 3.1 listed all the entries in the CMS and its correlated operations and where is it described in SUM. For the related operations:

- **Add and edit:** views, additions, editions and deletions are supported.
- **Edit only:** views, editions and deletions are supported.
- **Delete:** views and deletions are supported.
- **view only:** only views are supported

In the following sections we will demonstrate how to operate with entries excluding the view only entries.

Entry Name	Related operations
Affiliate feeds	Add and edit
Trip offers	Edit only
Trips	Edit only
Image dimensions	Add and edit
Location tags	View only
Locations	Add and edit
Swipe images	Add and edit
Tags	Add and edit
Travel dnas	View only
Fb app users	View only
Guest app users	View only
Mail app users	View only
Pending activations	Delete
Vacation details	View only
Groups	View only
Users	View only
Tokens	View only

Table 3.1: Entries overview

3.2 CMS log in screen

3.2.1 Functional Description

User can log in with a existed super user account.

3.2.2 Caution and Warning

- If the username is empty or it is incorrect, Figure 3.1(b) will be shown
- If password is empty, Figure 3.1(c) will be shown.
- If password is incorrect, Figure 3.1(d) will be shown.

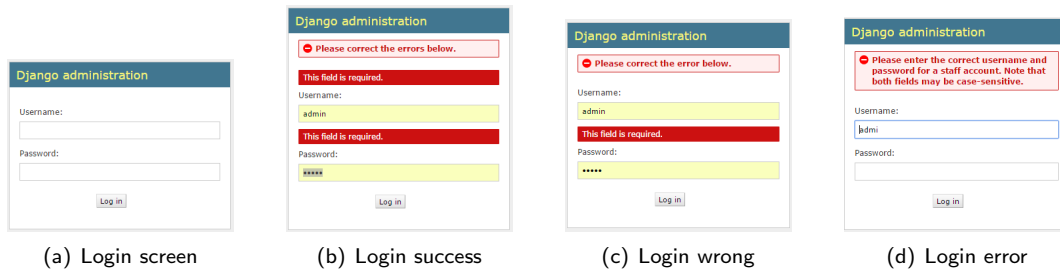


Figure 3.1: CMS login screens

In Figure 3.1(a) the login page of the CMS is shown.

The CMS is accessible via the user's browser by going to the CMS's url. It runs best on the latest versions of Safari and Chrome, it also runs on Internet Explorer.

3.2.3 Formal Description

The user enters the correct credentials in the Username and the Password field.

3.2.4 Related

- The overview screen Overview page

3.3 Overview page

3.3.1 Functional description

From here the overview of the database will be shown. All the entry will be listed, As Figure fig:CMS overview screen shown

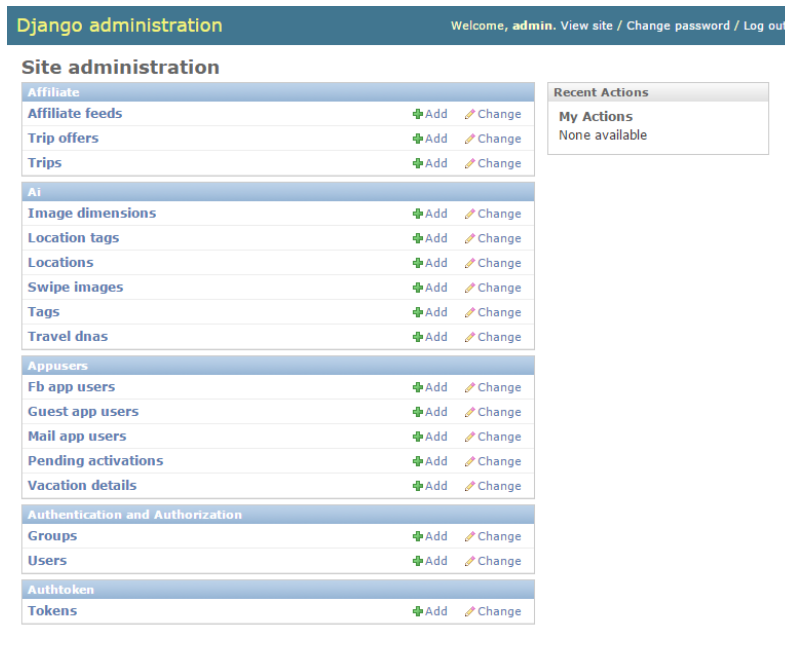


Figure 3.2: CMS overview screen

3.3.2 Caution and Warnings

Not applicable

3.3.3 Formal description

- Click the log out button on the top right of the screen to log out.
- The overview of the entries will be displayed, you can directly add or delete an entry or click on the entry to edit the entry, for the detail of each entry see Table 3.1.

3.3.4 Related

- The log in screen after you log out. See: CMS log in screen
- Trip Offers entry. See: Trip Offers
- Affiliate Feed entry. See: Affiliate Feed
- Trip entry. See: Trip
- Location entry. See: Locations
- Swipe Images entry. See: Swipe Images
- Tags entry. See: Tags
- Pending activations entry. See: Pending Activations

3.4 Trip Offers

3.4.1 Functional description

In this screen you can edit/delete the exist trip offered. As 3.3 shown

3.4.2 Caution and Warnings

- Adding an new TripOffers object is not allowed, although the django admin system does not prevent you from doing that. See Table 3.1

3.4.3 Formal description

- Click the log out button on the top right of the screen to log out.
- Click the each individual Entry for editing, click each fields to edit, click the delete button to delete, as Figure 3.7 shown. After you are done, you can either click save and continue to save it and continue editing, or save and return to the Trip entry screen as 3.6 shown.
- Click the entry you wish to delete, and select the delect action in the Action selection menu, then press go, as 3.8 shown.

Django administration

Welcome, admin. View site / Change password / Log out

Home » Affiliate » Trip offers

Select trip offer to change Add trip offer +

Action: 0 of 100 selected

Name	Loc	Price	Dept date	Duration days	With flight	Link
<input type="checkbox"/> Residhome Paris Asnières	Location 1: Parijs	105.0	July 3, 2015	4	<input checked="" type="checkbox"/>	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.arkere.france%2Fparijs%2Fresidhome-paris-asnieres%2F
<input type="checkbox"/> Le Meurice	Location 1: Parijs	1287.0	July 20, 2015	4	<input checked="" type="checkbox"/>	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.arkere.france%2Fparijs%2Fle-meurice%2F
<input type="checkbox"/> L'Hôtel du Collectionneur	Location 1: Parijs	614.0	July 10, 2015	4	<input checked="" type="checkbox"/>	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.arkere.france%2Fparijs%2Fl-hotel-du-collectionneur%2F
<input type="checkbox"/> Opera Cadet	Location 1: Parijs	426.0	July 27, 2015	4	<input checked="" type="checkbox"/>	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.arkere.france%2Fparijs%2Fopera-cadet%2F
<input type="checkbox"/> Crowne Plaza République	Location 1: Parijs	416.0	July 12, 2015	4	<input checked="" type="checkbox"/>	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.arkere.france%2Fparijs%2Fcrowne-plaza-republique%2F
<input type="checkbox"/> Plaza Tour Eiffel	Location 1: Parijs	394.0	July 31, 2015	4	<input checked="" type="checkbox"/>	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.arkere.france%2Fparijs%2Fplaza-tour-eiffel%2F
<input type="checkbox"/> Golden Tulip Washington Opera	Location 1: Parijs	384.0	July 19, 2015	4	<input checked="" type="checkbox"/>	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.arkere.france%2Fparijs%2Fgolden-tulip-washington-opera%2F

Figure 3.3: CMS Trip Offers

Hotel stars:	<input type="text" value="4"/>
Price:	<input type="text" value="416.0"/>
Link:	Currently: http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.arkere.france%2Fparijs%2Fcrowne-plaza-republique%2F Change: <input type="text" value="http://tc.tradetracker.net/?c=4338m=4720188a=2189168u="/>
Image:	Currently: http://media.tui.nl/1D7/1D72805CA7179560FB4FA498AB8396A8.jpg Change: <input type="text" value="http://media.tui.nl/1D7/1D72805CA7179560FB4FA498AB8"/>
Min people:	<input type="text" value="2"/>
Dept date:	<input type="text" value="2015-07-12"/> Today <input type="button" value="Calendar"/>
Note: You are 2 hours ahead of server time.	
Duration days:	<input type="text" value="4"/>
<input checked="" type="checkbox"/> With flight	
User rating:	<input type="text" value="7.6"/>
Priority:	<input type="text" value="0"/>
<input type="button" value="Delete"/> <input type="button" value="Save and add another"/> <input type="button" value="Save and continue editing"/> <input type="button" value="Save"/>	

Figure 3.4: Trip Offers object editing

<input type="checkbox"/>	Name	Loc	Price	Dept date	Duration days	With flight	Link
<input type="checkbox"/>	Residhome Paris Asnières	Location 1: Parijs	105.0	July 3, 2015	4	✓	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2Fwww.arke.france%2Fparijs%2Fresidhome-paris-asnieres%2F
<input type="checkbox"/>	Le Meurice	Location 1: Parijs	1287.0	July 20, 2015	4	✓	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2Fwww.arke.france%2Fparijs%2Fle-meurice%2F
<input type="checkbox"/>	L'Hôtel du Collectionneur	Location 1: Parijs	614.0	July 10, 2015	4	✓	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2Fwww.arke.france%2Fparijs%2Fhotel-du-collectionneur%2F
<input checked="" type="checkbox"/>	Opera Cadet	Location 1: Parijs	426.0	July 27, 2015	4	✓	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2Fwww.arke.france%2Fparijs%2Fopera-cadet%2F
<input checked="" type="checkbox"/>	Crownne Plaza République	Location 1: Parijs	416.0	July 12, 2015	4	✓	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2Fwww.arke.france%2Fparijs%2Fcrowne-plaza-republique%2F
<input type="checkbox"/>	Plaza Tour Eiffel	Location 1: Parijs	394.0	July 31, 2015	4	✓	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2Fwww.arke.france%2Fparijs%2Fplaza-tour-eiffel%2F
<input type="checkbox"/>	Golden Tulip Washington	Location 1: Parijs	384.0	July 19, 2015	4	✓	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2Fwww.arke.france%2Fparijs%2Fgolden-tulip-washington%2F

Figure 3.5: CMS Trip Offer actions

3.4.4 Related

- The log in screen after you log out. See: CMS log in screen
- The overview screen Overview page

3.5 Trip

3.5.1 Functional description

In this screen you can edit/delete the exist trip. As 3.6 shown

3.5.2 Caution and Warnings

- Adding an new Trip object is not allowed, although the django admin system does not prevent you from doing that. See Table 3.1

3.5.3 Formal description

- Click the log out button on the top right of the screen to log out.
- Click the each individual Entry for editing, click each fields to edit, click the delete button to delete, as Figure 3.7 shown. After you are done, you can either click save and continue to save it and continue editing, or save and return to the Trip entry screen as 3.6 shown.
- Click the entry you wish to delete, and select the delect action in the Action selection menu, then press go, as 3.8 shown.

Django administration Welcome, admin. View site / Change password / Log out

Home > Affiliate > Trips

Select trip to change Add trip +

Action: Go 0 of 100 selected

<input type="checkbox"/>	Name	City	Country	Price	Departure date	Duration	With flight	Link
<input type="checkbox"/>	Boutiquehotel Stadthalle	Wenen	Oostenrijk	276.0	Aug. 8, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fstadthalle%2F
<input type="checkbox"/>	Bellevue	Wenen	Oostenrijk	270.0	June 21, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fbellevue%2F
<input type="checkbox"/>	Austria Classic Wien	Wenen	Oostenrijk	241.0	Jan. 4, 2016	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fwien%2F
<input type="checkbox"/>	K + K Maria Theresia	Wenen	Oostenrijk	414.0	July 1, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Ftheresia%2F
<input type="checkbox"/>	Wandl	Wenen	Oostenrijk	376.0	July 1, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fwandl%2F
<input type="checkbox"/>	K+K Palais	Wenen	Oostenrijk	376.0	July 4, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fk+k%2Fpalais%2F
<input type="checkbox"/>	Best Western Plus Hotel Das Tigra	Wenen	Oostenrijk	375.0	July 1, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fhotel-das-tigra%2F
<input type="checkbox"/>	Mercure Wien	Wenen	Oostenrijk	304.0	Jan. 4, 2016	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fmercure-wien%2F

Figure 3.6: CMS Trip

Price:

Link: **Currently:** http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fstedentrip%2Ffoostenrijk%2Fwenen%2F
Change:

Image: **Currently:** http://media.tui.nl/B46/B468CF238075361C979AC6819FC0F2CB.jpg
Change:

Min nr people:

Departure date: Today |
 Note: You are 2 hours ahead of server time.

Duration:

With flight:

User rating:

Figure 3.7: CMS Trip object detail

Django administration Welcome, admin. View site / Change password / Log out

Home > Affiliate > Trips

Select trip to change Add trip +

Action: **Delete selected trips** Go 2 of 100 selected

<input type="checkbox"/>	Name	City	Country	Price	Departure date	Duration	With flight	Link
<input type="checkbox"/>	Boutiquehotel Stadthalle	Wenen	Oostenrijk	276.0	Aug. 8, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fstadthalle%2F
<input checked="" type="checkbox"/>	Bellevue	Wenen	Oostenrijk	270.0	June 21, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fbellevue%2F
<input checked="" type="checkbox"/>	Austria Classic Wien	Wenen	Oostenrijk	241.0	Jan. 4, 2016	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fwien%2F
<input type="checkbox"/>	K + K Maria Theresia	Wenen	Oostenrijk	414.0	July 1, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Ftheresia%2F
<input type="checkbox"/>	Wandl	Wenen	Oostenrijk	376.0	July 1, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fwandl%2F
<input type="checkbox"/>	K+K Palais	Wenen	Oostenrijk	376.0	July 4, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fk+k%2Fpalais%2F
<input type="checkbox"/>	Best Western Plus Hotel Das Tigra	Wenen	Oostenrijk	375.0	July 1, 2015	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fhotel-das-tigra%2F
<input type="checkbox"/>	Mercure Wien	Wenen	Oostenrijk	304.0	Jan. 4, 2016	4	True	http://tc.tradetracker.net/?c=4338m=4720188a=2189168u=http%3A%2F%2Fwww.ärke.nl%2Fmercure-wien%2F

Figure 3.8: CMS Trip actions

3.5.4 Related

- The log in screen after you log out. See: CMS log in screen
- The overview screen Overview page

3.6 Affiliate Feed

3.6.1 Functional description

This is for the Affiliate entry, you can add and edit in this entry. See Figure 3.9

3.6.2 Caution and Warnings

Not applicable

3.6.3 Formal description

- Click the log out button on the top right of the screen to log out.
- To delete the affiliate feed, select the feeds you wish to delete, select the action "Delete selected affiliate feeds" and click "Go", as Figure 3.11 shown.
- To add an affiliate feed press "Add affiliate feed" button, and then you will see Figure 3.10, fill in the forms, if you wish to save and leave click "Save", if you wish to save and continue editing the new feed click "Save and continue editing", if you wish to save and add an new feed click "Save and add another".
- To edit or remove a feed, click the feed you wish to edit/remove, as Figure 3.12 shown, it is similar to adding affiliate, only you can remove the feed by clicking the "delete" button on the bottom left part of the screen.

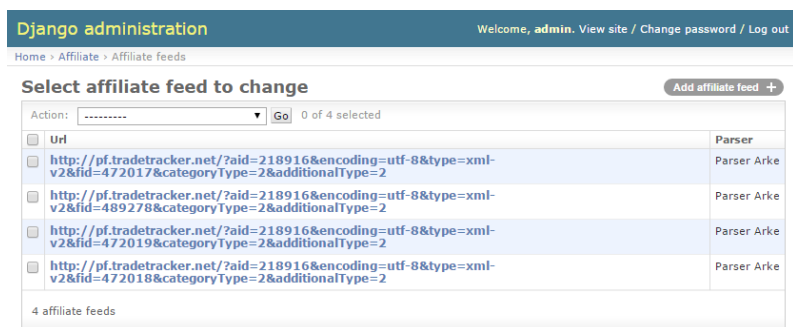


Figure 3.9: Affiliate

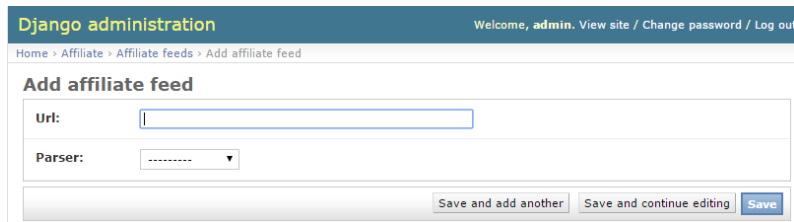


Figure 3.10: Affiliate add

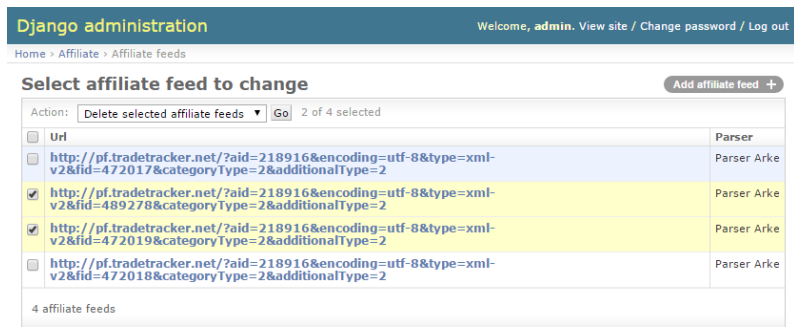


Figure 3.11: Affiliate deleting

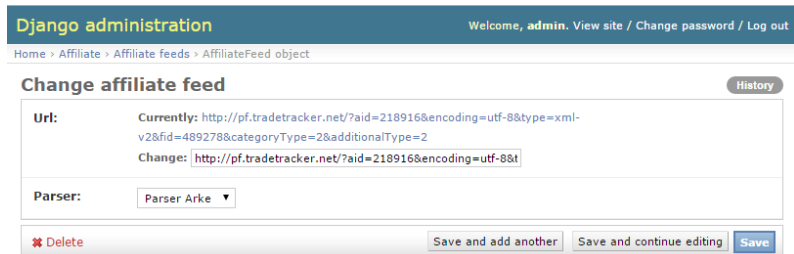


Figure 3.12: Affiliate edit

3.6.4 Related

- The log in screen after you log out. See: CMS log in screen
- The overview screen Overview page

3.7 Locations

3.7.1 Functional description

This is for the Location entry, you can add and edit in this entry. See Figure 3.13

3.7.2 Caution and Warnings

not applicable

3.7.3 Formal description

- Click the log out button on the top right of the screen to log out.
- From the Location model page the user can click on the "Loc id" of a location to edit the entry, see figure 3.15. Here the all the tags are normally listed with their value, but to keep it simple many are left out behind the black bar. The city name, country name and region name can be changed. Also the location can be set to active/inactive via the "Active" checkbox. Below, for each tag in the database, an initial value can be set. This will override the current value of that tag for this location when changed.

All the last row at the bottom of the screen contains extra functions for the location object. Via the red "Delete" button the location, including the tag values for that location, can be deleted. Also "Save and add another" can be used to save the location and redirects the user to the create a new location screen (Figure 3.16). "Save and continue editing" button saves the location and stay on this page for further editing. Finally, the "Save" button will save the location and afterwards the system will redirect you to the location overview.

- The user can select existing items by clicking the box on the left of the location items. If the user selects the top selection box all entries on this page are selected and an extra link to select all entries of this model in the database is added. After the user has specified their selection, the user can choose an action to perform on the selection at the upper right part of the screen.

In Figure 3.14 an example of an selection of deleting certain entries via the "Action" menu is shown.

Actions includes:

- **"Delete selected locations"**: this deletes all image selected from the database.
 - **"Activate selected locations"**: this sets the selected locations to active.
 - **"Update unset tags"**: this makes sure that the selected vacations have a default tag value for all tags. This function might be useful when partially importing older versions of the database.
- From the location overview screen a new location can be added via the "Add location" button at the upper left side of the page. After that you will be redirect to a page similar to Figure 3.15 but with no tags filled in, see Figure 3.16. From here the user should first fill in the three text fields and check the checkbox. Now the user can add tags values by specifying the tag and setting the initial value below it. The user can also quickly fill in all zero values by clicking on "Save and continue editing" as this will always set all missing values to zero.

Loc id	City name	Country name	Region name	Active
1	Parijs	Frankrijk		✓
3	Willemstad	Curaçao	Nederlandse Antillen	✓
4	Sunny Beach	Bulgarije		✓
5	Oslo	Noorwegen		✓
6	Blanes	Spanje	Costa Brava	✓
7	Chersonissos	Griekenland	Kreta	✓
10	Barcelona	Spanje		✓
13	Alanya	Turkije		✓
14	Bodrum-Gümbet	Turkije		✓

Figure 3.13: Locations screen

Django administration Welcome, **admin**. [View site](#) / [Change password](#) / [Log out](#)

[Home](#) > [Ai](#) > [Locations](#)

Select location to change Add location +

Action: 0 of 9 selected

<input type="checkbox"/>	Loc id	City name	Country name	Region name	Active
<input type="checkbox"/>	1	Parijs	Frankrijk		✓
<input type="checkbox"/>	3	Willemstad	Curaçao	Nederlandse Antillen	✓
<input type="checkbox"/>	4	Sunny Beach	Bulgarije		✓
<input type="checkbox"/>	5	Oslo	Noorwegen		✓
<input type="checkbox"/>	6	Blanes	Spanje	Costa Brava	✓
<input type="checkbox"/>	7	Chersonissos	Griekenland	Kreta	✓
<input type="checkbox"/>	10	Barcelona	Spanje		✓
<input type="checkbox"/>	13	Alanya	Turkije		✓
<input type="checkbox"/>	14	Bodrum-Gümbet	Turkije		✓

9 locations

Figure 3.14: Location editing example

Django administration
Welcome, **admin**. [View site](#) / [Change password](#) / [Log out](#)

Home > Ai > Locations > Location 4: Sunny Beach

Change location History

City name: <input style="width: 80%;" type="text" value="Sunny Beach"/>
Country name: <input style="width: 80%;" type="text" value="Bulgarije"/>
Region name: <input style="width: 80%;" type="text"/>
<input checked="" type="checkbox"/> Active

Location tags

Location tag: LocationTag object Delete
Tag id: <input style="width: 80%;" type="text" value="Culture"/> ✎ +
Initial value: <input style="width: 80%;" type="text" value="10"/>
Location tag: LocationTag object Delete
Tag id: <input style="width: 80%;" type="text" value="Sunny"/> ✎ +
Initial value: <input style="width: 80%;" type="text" value="100"/>
Location tag: LocationTag object Delete
Tag id: <input style="width: 80%;" type="text" value="Wintersports"/> ✎ +
Initial value: <input style="width: 80%;" type="text" value="0"/>
Location tag: LocationTag object Delete
Tag id: <input style="width: 80%;" type="text" value="Culinary _"/> ✎ +
Initial value: <input style="width: 80%;" type="text" value="50"/>
Location tag: LocationTag object Delete
Tag id: <input style="width: 80%;" type="text" value="Car"/> ✎ +
Initial value: <input style="width: 80%;" type="text" value="30"/>
Location tag: LocationTag object Delete
Tag id: <input style="width: 80%;" type="text" value="Flight"/> ✎ +
Initial value: <input style="width: 80%;" type="text" value="70"/>
Location tag: #13
Tag id: <input style="width: 80%;" type="text" value="-----"/> ✎ +
Initial value: <input style="width: 80%;" type="text" value="0"/>
Location tag: #14
Tag id: <input style="width: 80%;" type="text" value="-----"/> ✎ +
Initial value: <input style="width: 80%;" type="text" value="0"/>
Location tag: #15
Tag id: <input style="width: 80%;" type="text" value="-----"/> ✎ +
Initial value: <input style="width: 80%;" type="text" value="0"/>

+ Add another Location tag

✖ Delete
Save and add another
Save and continue editing
Save

Figure 3.15: Location editing

The screenshot shows the Django administration interface for adding a new location. At the top, there is a navigation bar with 'Django administration' and a welcome message for 'admin'. Below this, a breadcrumb trail reads 'Home > Ai > Locations > Add location'. A green success message states: 'The location "Location 4: Sunny Beach" was changed successfully. You may add another location below.' The main form is titled 'Add location' and contains the following fields: 'City name', 'Country name', 'Region name', and a checked 'Active' checkbox. Below the form is a section for 'Location tags' with three entries, each having a 'Tag id' field and an 'Initial value' field set to '0'. At the bottom of the page, there are three buttons: 'Save and add another', 'Save and continue editing', and 'Save'.

Figure 3.16: Add a new location

- Click the log out button on the top right of the screen to log out.

3.7.4 Related

- The log in screen after you log out. See: CMS log in screen
- The overview screen Overview page

3.8 Swipe Images

3.8.1 Functional description

In here we can edit/add the Swipe Image model, as Figure 3.17 shown.

3.8.2 Caution and Warnings

not applicable

3.8.3 Formal description

- Click the log out button on the top right of the screen to log out.
- From the CMS overview screen, the user can click on the "Swipe Images" link to enter the Swipe Images model in the database as seen in Figure 3.17. From here the user can either select entries to perform actions on, editing a existing entry, adding a new entry or download the image. By clicking on the "Original filename" the browser either opens the original image file in a new tab or download the image, depending on the users browser. Available actions are:

- **"Delete selected images"**: this deletes all image selected from the database.
 - **"Update dimensions and tags"**: this removes all instances of different dimensions not in the database anymore and creates instances for missing dimensions for the selected images.
 - **"Recreate dimensions"**: this first deletes all instances except the original and then recreates all image dimensions for the selected images.
 - **"Activate images"**: this sets Activated to true for the selected images.
 - **"Deactivate images"**: this sets Activated to false for the selected images.
- From the Swipe Image model page the user can click on the "Img id" or "Preview" of a swipe image to edit the entry. The user is then redirected to the edit page of an image. This page is similar to Figure 3.18 but with all the image tag values below it (like in Figure 3.15). Here the user can change the image via the button next to "Change:". The user should upload only high quality images to make sure that the resizing into the different dimensions doesn't give low quality images. Also the contents of the image should be centered so that the cropping doesn't make the intentions of the image unclear to the user.

Below, for each tag in the database, an value can be set.

All the last row at the bottom of the screen contains extra functions for the Swipe Image object, similar to the Location. When an image is saved missing dimensions are auto matically created.

- From the Swipe Image overview screen a new Swipe Image can be added via the "Add swipe image" button at the upper left side of the page. After that you will be redirect to a page similar to Figure 3.15 but with no initial tag values filled in and a missing preview image.

Img id	Original filename	Preview	Created	Uploaded by	Up-to-date
8	swipe_images/adventure1_xEaT933.jpg		June 5, 2015, 8:24 a.m.	admin	✓
9	swipe_images/adventure2.jpg		June 5, 2015, 8:24 a.m.	admin	✓
10	swipe_images/adventure3.jpg		June 5, 2015, 8:24 a.m.	admin	✓

Figure 3.17: Swipe Image screen

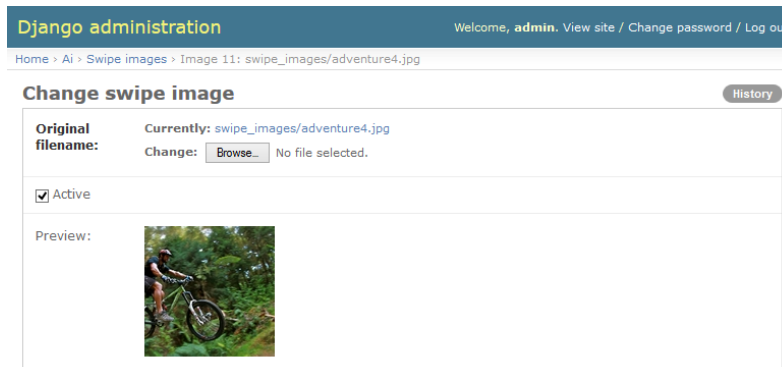


Figure 3.18: Editing a swipe image

3.8.4 Related

- The log in screen after you log out. See: CMS log in screen
- The overview screen Overview page

3.9 Tags

3.9.1 Functional description

In here we can edit/add tag model, it can either be a image tag or a location tag, or a vacation tag.

3.9.2 Caution and Warnings

not applicable

3.9.3 Formal description

- Click the log out button on the top right of the screen to log out.
- From the CMS overview screen, the user can click on the "Tags" link to enter the Tags model in the database as seen in figure 3.19. From here the user can either select entries to perform actions on, editing an existing entry or add a new entry.

following are possible actions:

- **"Delete selected Tags"**: this deletes the selected Tags with all the values per location and image from the database.
- Similar to Figure 3.16 but with different fields and no tag values (Figure 3.20).
- Similar to (Figure 3.20) but with some empty fields.

Name	Priority	Active	Created on	Created by
<input type="checkbox"/> Culture	2	✓	June 5, 2015, 8 a.m.	admin
<input type="checkbox"/> Sunny	3	✓	June 5, 2015, 8 a.m.	admin
<input checked="" type="checkbox"/> Wintersports	1000	✓	June 5, 2015, 8 a.m.	admin
<input type="checkbox"/> Culinary	10	✓	June 5, 2015, 8 a.m.	admin
<input type="checkbox"/> Sport	20	✓	June 5, 2015, 8 a.m.	admin
<input type="checkbox"/> Beach	2	✓	June 5, 2015, 8:01 a.m.	admin
<input type="checkbox"/> Shopping	15	✓	June 5, 2015, 8:01 a.m.	admin
<input type="checkbox"/> Nightlife	2	✓	June 5, 2015, 8:01 a.m.	admin
<input type="checkbox"/> Shoestring	1000	✓	June 5, 2015, 8:01 a.m.	admin
<input type="checkbox"/> Adventure	15	✓	June 5, 2015, 8:01 a.m.	admin
<input type="checkbox"/> Car	1000	✓	June 5, 2015, 8:01 a.m.	admin
<input type="checkbox"/> Flight	1	✓	June 5, 2015, 8:02 a.m.	admin

12 Tags

Figure 3.19: Tags screen

Home > Ai > Tags > Add Tag

✓ The Tag "Wintersports" was changed successfully. You may add another Tag below.

Add Tag

Name:

Active

Priority:

Save and add another Save and continue editing Save

Figure 3.20: Edit Tag screen

3.9.4 Related

- The log in screen after you log out. See: CMS log in screen
- The overview screen Overview page

3.10 Pending Activations

3.10.1 Functional description

In here you can delete a pending activation. See Figure 3.21

3.10.2 Caution and Warnings

- Adding an new Pending Activations object is not allowed, although the django admin system does not prevent you from doing that. See Table 3.1
- Editing an new Pending Activations object is not allowed, although the django admin system does not prevent you from doing that. See Table 3.1

3.10.3 Formal description

- Click the log out button on the top right of the screen to log out.
- You can delete selected pending activations as Figure 3.22 shown. First select the pending activations you wish to remove, then select the action "Delete pending activations" and then click "Go" Button.
- You can delete a pending activation after you click the entry, then select the "Delete" button on the bottom left part of the screen. See Figure 3.23.

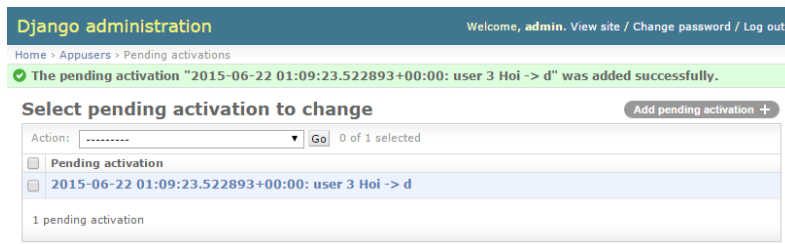


Figure 3.21: Pending Activation

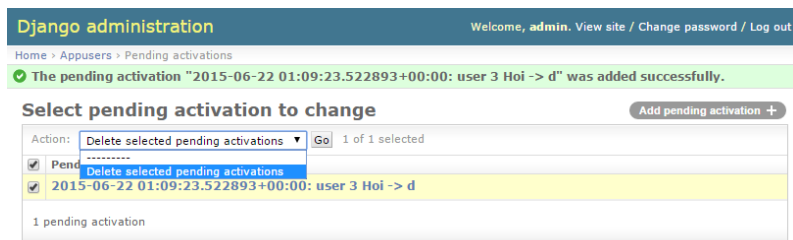


Figure 3.22: Pending Activation Delete

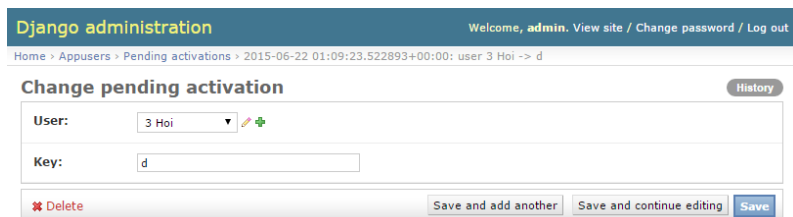


Figure 3.23: Pending activation delete detailed

3.10.4 Related

- The log in screen after you log out. See: CMS log in screen
- The overview screen Overview page

3.11 Extra models

sec:Extra-models-CMS There are many extra models in the admin screen for the user to get a good overview of the contents of the database. These can be used to see what happens behind the scenes and give an idea of what the database consists of.

Chapter 4

Tutorial for application

4.1 Splash screen

4.1.1 Functional Description

When the user opens the app the splash screen appears as seen in Figure 4.1. This takes a few seconds and the app needs this time to prepare for usage. When the app is done loading its resources the app redirects the user to the Welcome screen

4.1.2 Caution and Warning

Not applicable.

4.1.3 Formal Description

Not applicable.

4.1.4 Related

- Redirection to Welcome screen when done (Section 4.2)

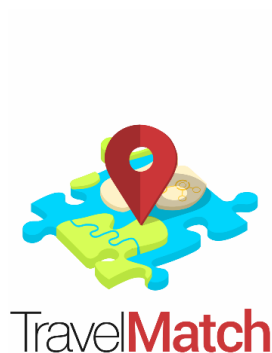


Figure 4.1: Splash screen

4.2 Welcome screen

4.2.1 Functional Description

The user lands here when they are not logged in and want to use the app.

4.2.2 Caution and Warning

Not applicable.

4.2.3 Formal Description

The screen is shown in Figure 4.2 From here the user can choose create a new account, continue using the app with an existing account or use the guest account. Also the menu for not logged in users is reachable from this screen.

4.2.4 Related

- The "Continue without account" button gives the Continue without account screen (Section 4.3)
- The "Connect via Facebook" button initiates the Connect to Facebook action (Section 5.1)
- The "Login" button gives the Login screen (Section 4.4)
- The "Register" button gives the Register screen(Section 4.5)
- The menu icon opens the Menu (not logged in) view (Section 4.6)



Figure 4.2: Welcome screen

4.3 Continue without account screen

This functionality is not implemented so only a message is displayed, as seen in Figure 4.3

4.4 Login screen

4.4.1 Functional Description

Here the user can login using a previously created account.

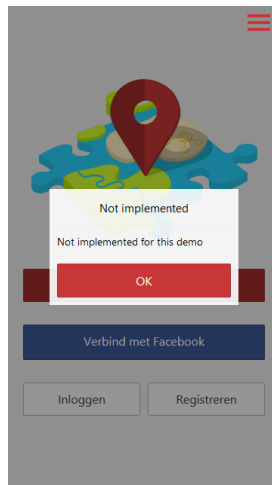


Figure 4.3: Guest dialog

4.4.2 Caution and Warning

- When the user either doesn't fill in the email field or doesn't fill in a email Figure 4.4(d) is shown
- When the user doesn't fill in the password field Figure 4.4(d) is shown
- When the user enters the wrong password the user cannot be authenticated and Figure 4.4(c) is shown

4.4.3 Formal Description

The user enters their email in the email field. The user enters their password in the password field.

4.4.4 Related

- When successfully logged in the user is redirected to the Vacation Details screen (Section 4.8)
- The top left tab redirects the user to the Register screen (Section 4.5)
- The "Connect via Facebook" button initiates the Connect to Facebook action (Section 5.1)
- The menu icon opens the Menu (not logged in) view (Section 4.6)

4.5 Register screen

4.5.1 Functional Description

From here the user can register a new account via email. After this the user should activate the account.

4.5.2 Caution and Warning

- When a account is created the account is not activated yet. This has to be done by clicking on the link in the activation mail. (see Figure 4.5(e))
- When the user either doesn't fill in the email field or doesn't fill in a email Figure 4.5(c) is shown.



Figure 4.4: Login screens

- When the user does not fill in the password field Figure 4.5(d) is shown.
- When the user loses or their activation email the user should retry to register and then a new activation email is send.

4.5.3 Formal Description

In the register screen, as shown in Figure 4.5(a), the user fills in their desired password and email. When the registration is successful Figure 4.5(b) is shown. Also an email (Figure 4.5(e)) is send to the user containing an activation link to activate their account. When the users loses this email the user can simply re-register with the same email and a new activation link will be send to the user. Over time users of the CMS can delete the pending activations. If the user presses on the link in their in-box and the account has no pending activations anymore the link refers to a message informing the user to re-register their account. If the account did have a pending activation the account is automatically activated and the user is notified in their browser.

4.5.4 Related

- When successfully registered the user is redirected to the Login screen (Section 4.4). In this case the email field on the login page is already filled in.
- The top right tab redirects the user to the Login screen (Section 4.4)
- The "Connect via Facebook" button initiates the Connect to Facebook action (Section 5.1)
- The menu icon opens the Menu (not logged in) view (Section 4.6)

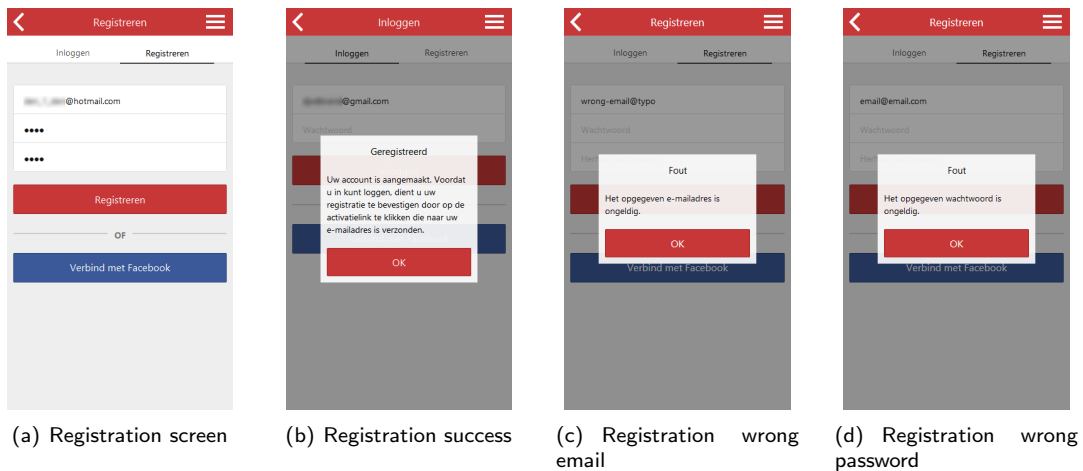
4.6 Menu (not logged in) view

4.6.1 Functional Description

From here the user can navigate between screens when not logged in, as seen in Figure 4.6

4.6.2 Caution and Warning

Not applicable.



Success!

Thank you, [\[redacted\]@gmail.com](#) has been confirmed as your email address. You can now head back to the TravelMatch application and log in.

With kind regards,

The TravelMatch team

(e) Activation email

Figure 4.5: Login screens

4.6.3 Formal Description

The user presses the items in the menu to go to the corresponding views. The menu disappears when the user presses on the screen left of the menu, when a item is pressed or when the user presses the cross in the top right corner.

4.6.4 Related

- The first item in the menu redirects the user to the Login screen (Section 4.4)
- The second item in the menu redirects the user to the Register screen (Section 4.5)
- The third item in the menu redirects the user to the About screen (Section 4.7)

4.7 About screen

4.7.1 Functional Description

Here you see some extra information about the company that distributes the app with the contact information, as seen in Figure 4.7

4.7.2 Caution and Warning

Not applicable.

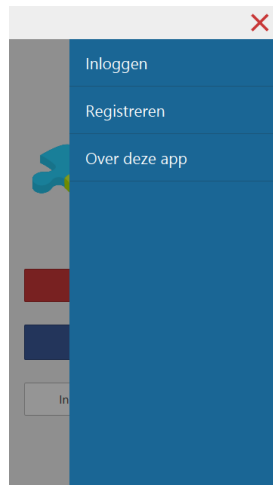


Figure 4.6: Not logged in Menu

4.7.3 Formal Description

Not applicable.

4.7.4 Related

- The menu icon opens the Menu (not logged in) view (Section 4.6)

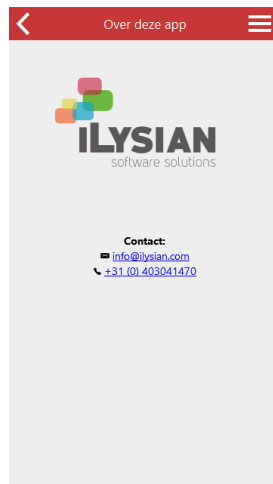


Figure 4.7: About screen

4.8 Vacation Details screen

4.8.1 Functional Description

From here the constraints of the holiday can be filled in.

4.8.2 Caution and Warning

When a field is not valid the error dialog containing information to where the error came from and how to fix it, as seen in Figure 4.8(b). The fields are only valid when these conditions are met:

- The arrival date must be after the departure date.
- The budget must be at least 1.
- The amount of adults must be at least 1
- The amount of children must be at least 0
- No field can be left empty

Constrains

- It is only possible to enter valid dates by the native date input mechanism of the device
- It is only possible to enter 0, 1, 2 or 3 in the flexibility fields via a native dropdown menu
- It is only possible to numbers in the budget input field via the native number field of the device
- When the surprise me check box is activated the budget field automatically disappears.
- When the surprise me check box is deactivated the budget field automatically reappears.

Warning

The age at which someone is considered to be an adult can vary per hotel offer. This has to be checked before booking the holiday.

4.8.3 Formal Description

Here the user presses each field and fills in the desired values (see Figure 4.8(a)):

- "Arrival and departure" These specify in what range of departure dates and arrival days the hotel offers must be given.
- "Flexibility" This specifies how many days an arrival or departure data may deviate from the specified dates.
- "Budget" Here the user can either specify a budget the hotel offers must constrain to or select the surprise me check box to not constrain hotel offer to a budget.
- "Travel group" Here you specify the amount of people the booking offers should support. These are split up in adults and children, most hotel offering consider persons from the age of 18 as an adult.

When the user is done the "Start advice" button is pressed to start the advice. When a field was not valid the user then gets a dialog, like Figure 4.8(b). The user then presses ok and fixes the error. When all field are valid the "Start advice" button redirects to the Swipe screen.

4.8.4 Related

- The menu icon opens the Menu (logged in) (Section 4.9)
- When everything is filled in correctly the "Start advice" button redirects the user to the Swipe screen (Section 4.11)

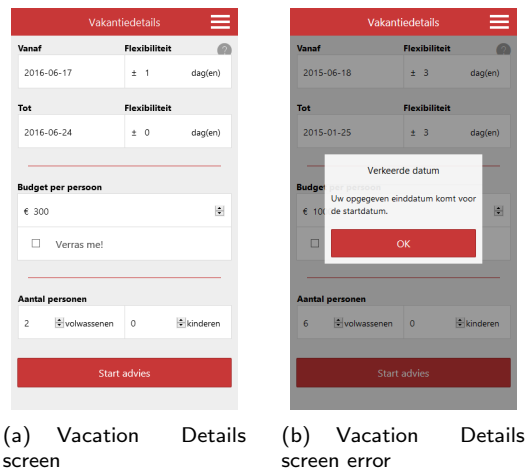


Figure 4.8: Vacation Details screens

4.9 Menu (logged in)

4.9.1 Functional Description

From here the user can navigate between screens when not logged in, as seen in Figure 4.9

4.9.2 Caution and Warning

Not applicable.

4.9.3 Formal Description

The user presses the items in the menu to go to the corresponding views. The menu disappears when the user presses on the screen left of the menu, when a item is pressed or when the user presses the cross in the top right corner.

4.9.4 Related

- The first item redirects the user to the Vacation Details screen (Section 4.8)
- The second item redirects the user to the Profile screen (Section 4.10)
- The third item redirects the user to the About screen (Section 4.7)
- The fourth item redirects the user to the Welcome screen (Section 4.2)

4.10 Profile screen

4.10.1 Functional Description

From here the user can adapt its profile.

4.10.2 Caution and Warning

When a field is not valid the error dialog containing information to where the error came from and how to fix it.

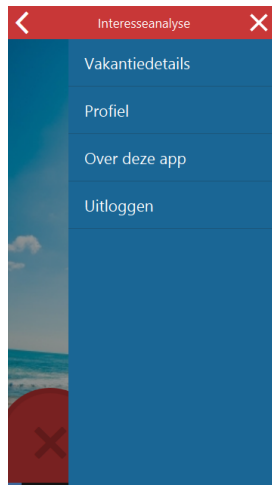


Figure 4.9: Logged in Menu

Constraints

- It is only possible to enter valid dates by the native date input mechanism of the device
- It is only possible to choose between 'male', 'female' and 'not specified'.

4.10.3 Formal Description

Here the user presses each field and fills in the desired values (see Figure ??):

"Name" Here the user can specify or edit their name.

"Gender" Here the user can specify or edit their gender.

"Birth date" Here the user can specify or edit their birth date.

When the user is done the save changes "Save changes" button is pressed to post the form.

4.10.4 Related

- The menu icon opens the Menu (logged in) (Section 4.9)
- When everything is filled in correctly the "Save changes" button sends the data to the server.

4.11 Swipe screen

4.11.1 Functional Description

Here the user can like or dislike images.

4.11.2 Caution and Warning

Not applicable.

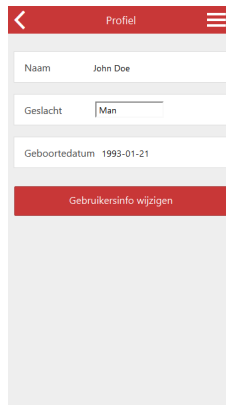


Figure 4.10: User profile screen

4.11.3 Formal Description

The user can like or dislike images by either pressing and dragging them to the left (dislike) or to the right (like). Alternatively, the user can press the red button with the cross on the bottom right to indicate a dislike, or press the green button with the heart to indicate a like. On the bottom, a progress bar keeps track of the number of images that have been swiped. The header at the top will be hidden automatically when entering the Swipe screen. To toggle the header, the user can press the button in the top middle. When the interest analysis is complete, the user needs to wait two seconds until the results are in, before the results are shown. In the meantime, a calculation animation is shown.

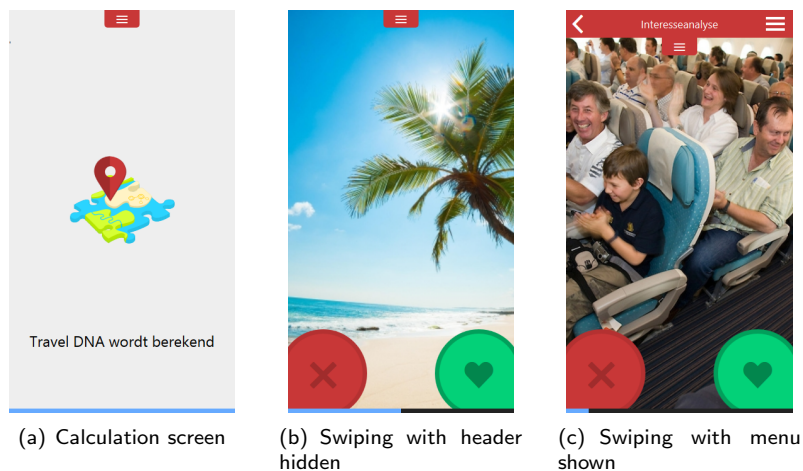


Figure 4.11: Login screens

4.11.4 Related

- The menu icon opens the Menu (logged in) (Section 4.9)
- After 20 swipes the user is automatically redirected to the Recommendation screen (Section 4.12)

4.12 Recommendation screen

4.12.1 Functional Description

The recommendation screen gives an overview of hotel offers for a certain recommended location, as seen in Figure 4.12(a).

4.12.2 Caution and Warning

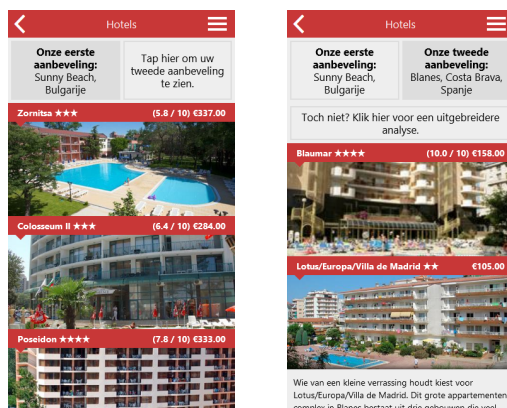
- When the user leaves the Recommendation screen the advice is lost.

4.12.3 Formal Description

This screen is automatically shown when the swiping of images is completed. At the top the location of the advice is displayed. Right of the location a button is displayed to get a second advice, if the first advice is not of interest to the user. Below a list of bookable holidays is given. For each holiday a name, star rating, user score and price per person is shown. When the user likes a holiday it can be opened in a Hotel view (Section 4.13) by pressing on the image. If the user requests a second advice (Figure 4.12(b)) is displayed. This screen contains an extra button that lets the user do a second interest analysis. This returns the user to the interest analysis screen and lets the user swipe another 20 images to gather more data and give a better advice. When the user returns back to the first recommendation this button then stays on the screen.

4.12.4 Related

- The menu icon opens the Menu (logged in) (Section 4.9)
- When the user presses on a hotel the Hotel view (Section 4.13) is opened for that hotel
- When the user presses the continue swiping button on the second recommendation the user is redirected to the Swipe screen (Section 4.11)



(a) First recommendation screen

(b) Second recommendation screen

Figure 4.12: Vacation Details screens

4.13 Hotel view

4.13.1 Functional Description

From here the user can find more info about a hotel and book their vacation. (see Figure ??)

4.13.2 Formal Description

In the Hotel view a header is displayed. The header contains, from left to right; the hotel name, the hotel star rating, the user rating and price per person. Below this is an image of the hotel and a more detailed description of what the holiday will look like. At the end of the description is the "Book now" button. This enables the user to book the holiday (see Section 5.2).

4.13.3 Related

- When the user presses the red "Book now" button the user is redirected to Book a hotel action (Section 5.2)
- The user remains in the Recommendation screen (Section 4.12)



Figure 4.13: Hotel view

Chapter 5

Actions related to the application

5.1 Connect to Facebook action

5.1.1 Functional Description

When this action is performed the user wants to authenticate via Facebook.

5.1.2 Caution and Warning

- When the user fails to authenticate by either cancellation or wrong credentials Figure 5.1(b) is shown.

5.1.3 Formal Description

When the user has the Facebook app installed this app is called for authenticating the user. When the user does not have the Facebook app installed the user is redirected to the facebook website. In both cases the user should login with Facebook, if necessary, and authenticate the app. When the app is authenticated for Facebook the user returns to the app and sees Figure 5.1(a). If the user then presses ok the user is logged in and is redirected to the Vacation Details screen.

If the procedure is canceled by the user the user is also redirected to the app and then sees Figure 5.1(b). On pressing Ok the dialog disappears.

5.1.4 Related

- When the authentication is successful the user is redirected to the Vacation Details screen (Section 4.8)

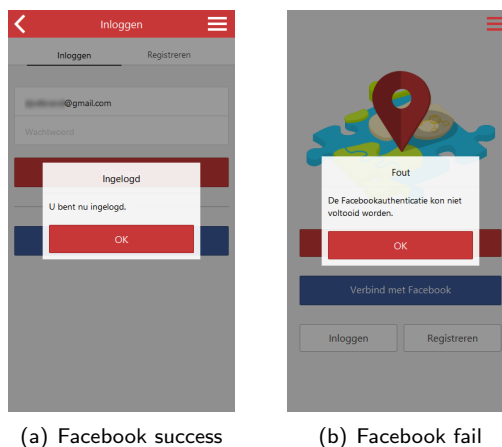


Figure 5.1: Facebook screens

5.2 Book a hotel action

5.2.1 Functional Description

This opens the vacation offer on the ArkeFly website in the users own browser.

5.2.2 Caution and Warning

- The booking can have different interpretations of when a person is considered a adult, this has to be manually checked before the vacation is booked.

5.2.3 Formal Description

The button is a link to the hotel entry on the ArkeFly website. The button thus opens the users default web browser and the app remains active in the background. When the user closes the browser the app reappears.

5.2.4 Related

- A hotel can be booked from the Hotel view (Section 4.13)