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# TEST SUITE

for

TravelDream

Software Engineering II, Politecnico di Milano  
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# 1 Introduction

## 1.1 Purpose

This document describes the test suite developed for TravelDream, a platform that has to be developed as part of the Software Engineering II course at Politecnico di Milano, year 2013-2014. Since this is an accademic product, the intended audience are interested students and professors, but also the authors of the document themselves, since it will be used as a reference during the entire software lifecycle.

## 1.2 Scope

The TravelDream web application is a system intended to support the sale process of a travel agency. It is oriented to different kind of users, offering different functionality to each one of them.

- **TravelDream employees:** they can add/delete/modify the basic products that can compose a travel, and create/delete/modify the travel packages to be sold to customers.
- **TravelDream customers:** can browse and search through the travel packages, select one of them, and personalize it; for instance, adding the departure and return date and modifying hotels and pre-planned excursions. Moreover, customers can let their friends access the travel package they are personalizing. Finally, they can confirm the travel. They have also the possibility to build a gift list, that allows them to receive travel components as a gift from other customers.
- **Unregistered user:** they can be invited to see a travel package and can decide to join this. In this case, they have to register with the system thus becoming customers themselves.

## 1.3 References

1. TravelDream Project Description, available on BeeP on the Software Engineering II course page.  
<https://beep.metid.polimi.it>
2. Software Engineering II course teaching material, available on BeeP on the course page
3. Requirements analysis and specification document (RASD) of the project, updated version attached to the deliverable.
4. Software Design Document (SDD) of the project, which last updated version is attached to the deliverable.

## 1.4 Overview

The rest document is organized as follows.

In section [1](#) there is the introduction, which is intended to provide an overview of the entire document. Section [2](#) contains the actual test suite and all the associated test cases.

## 2 Test Suite

Code	[TC1]
Objective	User registration.
Functional Requirement	[FR1]
Name	New account registration
Environment	Registration page
Input	Data in correct format of the following type: email, first name, last name, password in both the required field. Email: <i>giu.natale90@gmail.com</i> , firstname: <i>Giuseppe</i> , lastname: <i>Natale</i> , password: <i>polimi</i>
Expected Output	The system confirms the customer registration, sends an email with account information, and stores the password in hash.
Obtained Output	Coincides with the expected output. The system inserts the data in the database. an email is sent to <i>giu.natale90@gmail.com</i>
Final Result	The system redirect the customer to the home page.
Observation	Possible errors are inconsistent data, like not correct format of the email, passwords which does not match. For all these the system reacts in a correct way by informing about the errors and not completing the registration procedure. Also, a fake email will result in not receiving any confirmation email from the system

Code	[TC2]
Objective	Customer login in Traveldream platform.
Functional Requirement	[FR2]
Name	Customer login
Environment	Home page.Customer is already registered
Input	Data in correct format of the following type: email, password. Email: <i>giu.natale90@gmail.com</i> , password: <i>polimi</i>
Expected Output	The system accepts the login and redirect the user in his personal page.
Obtained Output	Coincides with the expected output. The system inserts the data in the database. an email is sent to <i>giu.natale90@gmail.com</i>
Final Result	The system redirect the customer to the home page.
Observation	Possible errors are inconsistent data, like not correct format of the email,or wrong password. For all these the system reacts in a correct way by informing about the errors and not completing the login procedure.

Code	[TC3]
Name	User logout
Objective	User de-authentication.
Functional Requirement	[FR3]
Environment	Customer personal page, the user is logged in
Input	Click on the logout button
Expected Output	The session is terminated
Obtained Output	Coincides with the expected output
Final Result	The user is de-authenticated and redirected at the home page
Observation	

Code	[TC4]
Name	Credential retrieval
Objective	Customer credential retrieval
Functional Requirement	[FR4]
Environment	Credential retrieval page
Input	A valid and registered email. Email: <i>giu.natale90@gmail.com</i>
Expected Output	The system sends an email with a temporary password
Obtained Output	Coincides with the expected output.
Final Result	The system redirect the user to the home page
Observation	An invalid or unregistered email will result in an error message. Employees cannot retrieve their credentials

Code	[TC5]
Name	Search predefined
Objective	Customer search through predefined travel packages.
Functional Requirement	[FR10] [FR11] [FR32] [FR33]
Environment	Customer personal page, search section, predefined travel packages tab
Input	Empty fields, click on the <i>browse all</i> button
Expected Output	All the predefined travel packages are returned with the search
Obtained Output	Coincides with the expected output
Final Result	A dialog is opened with all the predefined travel packages listed
Observation	If criteria are set, the <i>search</i> button will retrieve only the packages which reflects them



Code	[TC6]
Objective	Customer modify his personal info.
Functional Requirement	[FR5]
Name	Modify personal information
Environment	User personal page, section personal info
Input	Data in correct format of the following type: first name, last name, password in both the required field. Firstname: <i>Mario</i> , lastname: <i>Rossi</i> , password: <i>traveldream</i>
Expected Output	The system confirms the update of the personal customer information.
Obtained Output	Coincides with the expected output. The system inserts the data in the database
Final Result	The system displays the update info in the user personal page, section personal info
Observation	Possible errors are inconsistent data,like first name or last name fields empty or passwords which does not match. For all these the system reacts in a correct way by informing about the errors and not completing the update procedure

Code	[TC7]
Objective	Customer view his owned personalized package
Functional Requirement	[FR6]
Name	View owned personalized package
Environment	User personal page, personalized travel packages section
Input	Select the personalized travel packages tab
Expected Output	The system displays the list of personalized travel packages owned by the customer
Obtained Output	Coincides with the expected output
Final Result	The system displays the list of personalized travel packages owned by the customer
Observation	-

Code	[TC8]
Objective	Customer search and browse other customers .
Functional Requirement	[FR7] [FR8]
Name	Search and browse customers
Environment	User personal page,search section,customers tab. Stefano Portolan is a customer.
Input	Insert data in correct format in first name or last name fields or both.Firstname: <i>Stefano</i>
Expected Output	The system displays the list of customers that respects the criteria of the search
Obtained Output	Coincides with the expected output .
Final Result	The system displays the list of customers with the first name equal to “Stefano ”. Result obtained: “Stefano Portolan”
Observation	Possible errors are inconsistent data,like first name or last name fields empty or with a string long less than three characters. For all these the system reacts in a correct way by informing about the errors and not completing the update procedure

Code	[TC9]
Objective	View customers profile
Functional Requirement	[FR9]
Name	View customers profile
Environment	User personal page,search section,customers tab. Stefano Portolan is a customer.
Input	Click the visualize profile button displayed after a search of customer. Search result: “Stefano Portolan”
Expected Output	The system displays the profile of the selected customer
Obtained Output	Coincides with the expected output
Final Result	The system displays the personal page of the selected customer. Result obtained: “Stefano Portolan” personal page
Observation	-

Code	[TC10]
Name	Save a predefined travel package as a personal package
Objective	Create a new personalized travel packages by using a predefined travel package as a model.
Functional Requirement	[FR12]
Environment	Predefined travel package page
Input	Click on the <i>Save</i> button
Expected Output	The system adds the package to the personalized travel package of the user
Obtained Output	Coincides to the expected output
Final Result	The system redirects the user to the personalized travel packages list page
Observation	The customer can also confirm directly the package or modify it and save the changes to his own personalized travel packages list usign the proper buttons.

Code	[TC11]
Name	Personalized travel package consistency
Objective	Consistency of personalized travel packages must be guaranteed by appropriate checks after every creation or modification of them.
Functional Requirement	[FR13], [FR15]
Environment	Personalized travel package page
Input	The following data are changed in an already saved personalized travel package. Departure date: "01/01/2014". Return date: "03/01/2014". Name: "TEST". Using the "Add travel component" button, a flight with the following characteristics is added. Company: "Alitalia". Code: "AZ108". From "MILANO". Departure date: "01/02/2014 15.30". To: "NAPOLI". Arrival date: "01/02/2014 16:30"
Expected Output	The application refuses to update the package because it is inconsistent.
Obtained Output	The application shown the following error: "Something went wrong. Server replied: There is a flight arriving after the return date of the package." The package is not added.
Final Result	The output correponds to what was expected.
Observation	If the package departure date and return date are corrected changing them to "01/02/2014", the package is not inconsistent anymore and then package creation is successful.

Code	[TC12]
Name	List personalized travel packages
Objective	List all personalized travel packages owned.
Functional Requirement	[FR14]
Environment	Customer personal page
Input	Click on the personal package section button
Expected Output	The system retrieve all the personalized travel packages
Obtained Output	Coincides to the expected output.
Final Result	The system opens the customer personal package section page
Observation	The list will be empty if no personalized travel package are owned by the customer.

Code	[TC13]
Name	Add a component to a personalized travel package
Objective	Add a travel component to an owned personalized travel package, only if it is not confirmed.
Functional Requirement	[FR15] [FR18]
Environment	Customer personal page, personal travel package section, personalized travel package view. The package is not confirmed and a component not already present in the travel package is available through a search.
Input	The <i>add travel component</i> button is clicked
Expected Output	The component is added to the package.
Obtained Output	Coincides with the expected output.
Final Result	The system updates the view with the new component
Observation	If the component is already present, the add fails. To save the changes the customer must click on the save button

Code	[TC14]
Name	Remove a component to a personalized travel package
Objective	
Functional Requirement	[FR15] [FR19]
Environment	Customer personal page, personal travel package section, personalized travel package view. The component is not payed
Input	The <i>remove travel component</i> button next to the component is clicked
Expected Output	The component is removed from the package.
Obtained Output	Coincides with the expected output.
Final Result	The system updates the view not showing anymore the component
Observation	If the component is payed, the deletion fails. To save the changes the customer must click on the save button

Code	[TC15]
Name	Remove personalized travel package
Objective	Remove a personalized travel package, only if it is not confirmed.
Functional Requirement	[FR16] [FR17]
Environment	Customer personal page, personal travel package section.
Input	The <i>remove travel package</i> button next to the package is clicked
Expected Output	The package is removed from the list.
Obtained Output	Coincides with the expected output.
Final Result	The system updates the view not showing anymore the package
Observation	If the package status is set to confirmed, then the deletion fails.

Code	[TC16]
Name	Confirm personalized travel package
Objective	Confirm a personalized travel package, only if it is not confirmed.
Functional Requirement	[FR21]
Environment	Customer personal page, personal travel package section, personalized package page. The package is unconfirmed
Input	The <i>confirm</i> button next to the package is clicked
Expected Output	The component is confirmed and all of its component are payed.
Obtained Output	Coincides with the expected output.
Final Result	The system redirects to the personal packages page and updates the view showing the new status of the package
Observation	If the gift list of the owner has gift elements which belong to this package, they are removed from the gift list.

Code	[TC17]
Name	Use the identifier of a package and join it
Objective	Customer use the identifier of a travel package of another customer and join it
Functional Requirement	[FR22] [FR23] [FR24]
Environment	Customer personal page
Input	Copy the identifier of the package in the web address line of the browser, visualize the package and select the join button.
Expected Output	The personalized package is copied and confirmed in the personalized travel package of the customer
Obtained Output	Coincides with the expected output
Final Result	The system allows the customer to join the package
Observation	The customer cannot join a package which is already in his travel package list or which contains a non available components

Code	[TC18]
Objective	Customer confirms a personalized travel package that contains a travel component which is also in the giftlist
Functional Requirement	-
Name	Confirm personalized travel package
Environment	User personal page, personalized travel packages section
Input	Click confirm button in order to confirm the personalized travel package
Expected Output	The personalized travel package becomes confirm
Obtained Output	Coincides with the expected output
Final Result	The personalized travel package becomes confirm and the travel component that was in the personalized package and also in the gift list, has been removed from the gift list
Observation	-

Code	[TC19]
Objective	Add a non payed travel component of an owned personalized travel package to the gift list
Functional Requirement	[FR26]
Name	Add travel component to gift list
Environment	User personal page, personalized travel packages section
Input	Click the add to gift list button displayed after selecting a component of a personalized travel package. Type: <i>Hotel</i> , supplying company: <i>Dream Group</i> , status: <i>Not confirmed</i> , city: <i>Milano</i> , date: <i>28/01/2014</i>
Expected Output	The system add the package in the gift list
Obtained Output	Coincides with the expected output
Final Result	The system adds the package in the gift list. Result obtained: The selected package has been added to the gift list
Observation	A travel component cannot be added to the gift list if it is not contained in a personalized travel package or if it is in a personalized travel package already confirmed

Code	[TC20]
Objective	View the gift list of another customer
Functional Requirement	[FR27]
Name	View the gift list of another customer
Environment	User personal page, search section. Stefano Portolan is a customer.
Input	Click the GiftList tab after the selection of a customer in the result of the customer search Selected customer: “Stefano Portolan”
Expected Output	The system visualize the list of packages in the gift list.
Obtained Output	Coincides with the expected output
Final Result	The system visualize the list of packages in the gift list. Result obtained: list of travel packages of “Stefano Portolan” gift list
Observation	The list will be empty if the selected customer does not have any travel component in the gift list.

Code	[TC21]
Objective	Customer view another customers gift list.
Functional Requirement	[FR28]
Name	View another customers gift list
Environment	User personal page,search section. Stefano Portolan is a customer.
Input	Click the pay travel component button after the selection of a customer profile in the customers search result. Selected customer: “Stefano Portolan”
Expected Output	The system pay the selected travel component of the gift list of the selected customer
Obtained Output	Coincides with the expected output
Final Result	The system send a email to “Stefano Portolan” to inform him that another customer has payed his travel component in the gift list
Observation	-

Code	[TC22]
Objective	Unregistered user visualize a travel package through the identifier.
Functional Requirement	[FR29]
Name	View a personalized travel package by the identifier of it
Environment	Home page
Input	Copy the identifier of the travel package in the web address line of the browser Identifier: <i>“localhost:8080/TravelDreamWeb/join_package.xhtml?share=1”</i>
Expected Output	The system visualize the personalized travel package
Obtained Output	Coincides with the expected output
Final Result	The system visualize the personalized travel package and its details View of personalized travel package and its details of the relative identifier
Observation	-

Code	[TC23]
Objective	Unregistered user try to join a travel package
Functional Requirement	[FR30]
Name	Join a travel package
Environment	Home page
Input	Copy the identifier of the travel package in the web address line of the browser. Then, press the join button. Identifier used: <i>“localhost:8080/TravelDreamWeb/join_package.xhtml?share=1”</i>
Expected Output	The system informs the customer he has to be registered
Obtained Output	Coincides with the expected output
Final Result	The system informs the customer he has to be registered in order to join the travel package
Observation	-



Code	[TC24]
Name	Predefined package consistency
Objective	Consistency of predefined travel packages must be guaranteed by appropriate checks after every creation/modification.
Functional Requirement	[FR31]
Environment	Employee control panel
Input	The following data are inserted in the “Create travel package” form. Departure date: “01/01/2014”. Return date: “03/01/2014”. Name: “TEST”. Description: “TEST”. Using the “Add travel component” button, a flight with the following characteristics is added. Company: “Alitalia”. Code: “AZ5163”. From “MILANO”. Departure date: “01/02/2014 15.30”. To: “TRIESTE”. Arrival date: “01/02/2014 16:30”
Expected Output	The application refuses to create the package because it is inconsistent.
Obtained Output	The application shown the following error: “Something went wrong. Server replied: There is a flight arriving after the return date of the package.” The package is not added.
Final Result	The output correponds to what was expected.
Observation	If the package departure date and return date are corrected changing them to “01/02/2014”, the package is not inconsistent anymore and then package creation is successful.

Code	[TC25]
Name	Add new predefined travel package
Objective	Add a new travel package to the set of predefined travel packages available to the users.
Functional Requirement	[FR34]
Environment	<p>Employee control panel. The following travel components must be present in the system:</p> <ul style="list-style-type: none"> <li>• [Flight 1] Company: "Alitalia". Code: "AZ5163". From "MILANO". Departure date: "01/02/2014 15.30". To: "TRIESTE". Arrival date: "01/02/2014 16:30"</li> <li>• [Flight 2] Company: "Alitalia". Code: "AZ6102". From "TRIESTE". Departure date: "03/02/2014 19.00". To: "MILANO". Arrival date: "03/02/2014 20.00"</li> <li>• [Hotel 1] Company: "Urban". City: "TRIESTE". Date: "01/02/2014".</li> <li>• [Hotel 2] Company: "Urban". City: "TRIESTE". Date: "02/02/2014".</li> <li>• [Excursion 1] Company: "NosepolTravel". City: "TRIESTE". Date: "02/02/2014 09:30".</li> </ul>
Input	In the "Create travel package" section of the employee control panel, the following data are inserted: Departure date: "01/02/2014". Return date: "03/02/2014". Name: "TEST". Description: "TEST". Using the "Add travel component" button, the travel components [Flight 1], [Flight 2], [Hotel 1], [Hotel 2], [Excursion 1] are added to the package.
Expected Output	The application add the predefined travel package to the system, since it is consistent.
Obtained Output	A message is shown, confirming that the predefined travel package was correctly created.
Final Result	The output correponds to what was expected.
Observation	If the user tries to submit the form whis missing information, the system refuses to create the package.

Code	[TC26]
Name	Edit predefined travel package details
Objective	Edit the title of a travel package that is already present in the system.
Functional Requirement	[FR35]
Environment	Employee control panel. The travel package “TEST” created in the test case [TC25] must be present in the system.
Input	Using the “Search predefined travel packages” section of the control panel, the travel created in the test case [TC25] is found. The user clicks on the “Visualize details of the package” button, and then on the “Modify” button. The user clicks on the title, changes it to “Changed title”, and then he clicks on the “Save” button.
Expected Output	The title of the travel package is changed.
Obtained Output	The title of the travel package is changed.
Final Result	The output corresponds to what was expected.
Observation	None.

Code	[TC27]
Name	Delete predefined travel package
Objective	Delete a predefined travel package that is already present in the system.
Functional Requirement	[FR36]
Environment	Employee control panel. The travel package “TEST” created in the test case [TC25] must be present in the system.
Input	Using the “Search predefined travel packages” section of the control panel, the travel created in the test case [TC25] is found. The user clicks on the “Delete the travel package” button.
Expected Output	The travel package “TEST” is not present in the system anymore.
Obtained Output	The travel package “TEST” is not present in the system anymore.
Final Result	The output corresponds to what was expected.
Observation	None.

Code	[TC28]
Name	Add a travel component to a predefined travel package
Objective	Add a travel component to a travel package that is already present in the system.
Functional Requirement	[FR37]
Environment	Employee control panel. The travel package “TEST” created in the test case [TC25] and then modified in the test case [TC29] must be present in the system.
Input	Using the “Search predefined travel packages” section of the control panel, the package modified in the test case [TC29] is found. The user clicks on the “Visualize details of the package” button, and then on the “Modify” button. The user clicks on the “Add travel component” button and then on the “Excursion” of the search form displayed. He then clicks on the “Browse all” button, and clicks the “Add travel component” button corresponding to the [Excursion 1] of the test case [TC25].
Expected Output	The excursion travel component is added from the predefined travel package.
Obtained Output	The excursion travel component was effectively added from the predefined travel package.
Final Result	The output corresponds to what was expected.
Observation	If the user tries to add an excursion before the package departure or after the package return date, an error is displayed.

Code	[TC29]
Name	Remove component from a predefined travel package
Objective	Remove a component from a travel package that is already present in the system.
Functional Requirement	[FR38]
Environment	Employee control panel. The travel package “TEST” created in the test case [TC25] must be present in the system.
Input	Using the “Search predefined travel packages” section of the control panel, the travel created in the test case [TC25] is found. The user clicks on the “Visualize details of the package” button, and then on the “Modify” button. The user clicks on the “Delete” button of the excursion, and then on the “Save” button. Now the user check the composition of the package to verify that the excursion is not in the package anymore.
Expected Output	The excursion travel component is removed from the predefined travel package.
Obtained Output	The excursion travel component was effectively removed from the predefined travel package.
Final Result	The output correponds to what was expected.
Observation	None.

Code	[TC30]
Name	Search travel components
Objective	Customer search trthrough travel component
Functional Requirement	[FR39] [FR40]
Environment	Customer personal page, personalized travel package section
Input	Empty fields, click on the <i>browse all</i> button
Expected Output	All the travel components are returned with the search
Obtained Output	Coincides with the expected output
Final Result	A list is opened with all the travel components listed
Observation	If criteria are set, the <i>search</i> button will retrieve only the packages which reflects them

Code	[TC31]
Name	Add travel component
Objective	Add a travel component to the system
Functional Requirement	[FR41]
Environment	Employee control panel.
Input	The user clicks on the “Excursion” section of the “Create travel component” part of the employee control panel. He enters the following data. Company: “NosepolTravel”. Number of available places: 10. Excursion date: “03/01/2014”. Excursion city: “TRIESTE”. Excursion time: “10:00”. Description: “test”. He then clicks on the “Add this travel component” button.
Expected Output	The travel component is added to the system.
Obtained Output	The travel component is added to the system.
Final Result	The output corresponds to what was expected.
Observation	-

Code	[TC32]
Name	Remove travel component
Objective	Remove a travel component from the system
Functional Requirement	[FR42]
Environment	Employee control panel. The travel component created in the test case [TC31] must be present in the system.
Input	The user clicks on the “Search travel component” part of the employee control panel. He clicks on the “Browse all” button, and then on the “Delete travel component” button of the travel component before mentioned.
Expected Output	The travel component is removed from the system.
Obtained Output	The travel component is removed from the system.
Final Result	The output corresponds to what was expected.
Observation	None.

Code	[TC33]
Name	Modify travel component
Objective	Modify a travel component in the system
Functional Requirement	[FR43]
Environment	Employee control panel. The travel component created in the test case [TC31] must be present in the system.
Input	The user clicks on the “Search travel component” part of the employee control panel. He clicks on the “Browse all” button, and then on the “Edit travel component info” button of the travel component before mentioned. In the form that appeared, containing the details of the travel component, he modifies the company name with “OtherCompany”, and then he clicks on the “Save changes” button.
Expected Output	The travel component company name is changed.
Obtained Output	The travel component company name is changed.
Final Result	The output correponds to what was expected.
Observation	None.