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**Politecnico Di Milano**

Facoltà di Ingegneria dell' Informazione

(Computer Science Engineering)

SOFTWARE ENGINEERING II PROJECT

Part III: **Test Cases**

Prof.ssa: **Di Nitto**

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Project Title: **BidWin**

Project Repository: **https://github.com/EmanueleLM/BidWin**

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Here are provided the most meaningful test cases for our project.

We are sure that a lot of test cases, apart from the following list, could be added.

We think that since BidWin is a prototype-project to demonstrate our abilities in software engineering, a complete test suite can be developed meanwhile the project functionalities grows and the project becomes a fully functional webapp.

We adopt a notation which is similar to the one used in the Hoare’s Logic: **{P}** is the set of pre-conditions that must be fulfilled before the execution of the action(s).

**{Q}** is the state of the system after the action is done -set of post-conditions which leads to an appropriate system state-.

**Notation: {P} actions; {Q}**

Test cases

**Please note**: for convenience, the " I am logged in" line will not be repeated in all the tests not involving login or registration.

**Feature:** Restrict access to registered user

**Scenario:** visiting a page before without logging in

* **{P}** I am not logged in
* When I visit any page
* **{Q}** I am shown the login page

**Scenario**: visiting a page after login

* **{P}** I am logged in
* When I visit any page
* **{Q}** I am not automatically redirected to login

**Feature**: Registration

**Scenario**: registering with a valid username

* **{P}** I am not logged in and the username U I'm choosing is not already the system
* **{Q}** I fill and submit the login form with my data
* **{Q}** the system should accept me and execute login

Scenario: registering with an already used username

* **{P}** I am not logged in
* And the username I'm choosing is already in the system
* When I fill and submit the login form with my data
* **{Q}** the system should show me an error and show me the registration page again **(ERROR: “Username already used”)**

Scenario: registering with missing data

* **{P}** I am not logged in
* When I fill and submit the login form with incomplete data
* **{Q}** the system should show me an error and show me the registration page again (**ERROR: “Email not valid, field required etc.”)**

Feature: Login

Scenario: logging in with correct data

* **{P}** I am not logged in
* And I am already registered in the system
* When I fill and submit the login form with my data
* **{Q}** the system should accept me, and redirect me to the main page

Scenario: logging in with wrong credentials

* **{P}** I am not logged in
* When I fill and submit the login form with wrong data
* Then the system should not accept me
* **{Q}** show me the error page with a link to the login page

Feature: Logout

Scenario: logging out

* **{P}** I am logged in
* When I click the logout button
* **{Q}** the system should log me out and redirect me to the login page again

Feature: Adding a new object

Scenario: Going to the new object page

* **{P}** I am in my home page or my object page
* When I click on the "New object" link
* **{Q}** I should be shown the "New object" page

Scenario: Creating a new auction

* **{P}** I am in the "My Objects" page
* And I click the link “Create Auction”
* **{Q}** the auction should be created and I should be set as the owner

and I am shown the Welcome page

Scenario: Creating a new object with missing data

* **{P}** I am in the "Create object page"
* When I fill in incomplete data about the event and I submit the form
* **{Q}** I am showed an error and the form again **(ERROR: “may not be empty”)**

Scenario: Adding an auction to an object twice

* **{P}** I own the Object O
* And I am on the page of the My Objects O and an auction A exists on the object O -ended up or not-
* **{P}** I try to start another auction I recieve an error message **(ERROR: “The Object has already had an auction”)**

Feature: Managing open bids

Scenario: Going to the “My open bids” page

* **{P}** I am in my home page
* When I click on the " My open bids" link
* **{Q}** I should be shown the " My open bids " page where are displayed just the auctions where I made at least a bid.

Feature: Managing closed bids (history)

Scenario: Going to the “My closed bids” page

* **{P}** I am in my home page
* When I click on “History of my bids”
* **{Q}** I should be shown the “History of my bids” page page where are displayed just the auctions where I made at least a bid.

Feature: See all the auction details

Scenario: Going to “details” sections

* **{P}** Im in my “History of my bids” or in “My open bids” page
* I click on details on a selected auction
* **{Q}** I should be shown all the auction details

Feature: Make a bid on an auction

Scenario: Make a bid on an auction

* **{P}** I am in an auction of another user (by the search engine)
* I find an auction and I put one (or more) bids on that
* **{Q}** The bids are registered on the auction’s details

Feature: Make a bid on an auction

Scenario: Make the same bid twice on an auction

* **{P}** I am in an auction of another user (by the search engine)
* I find an auction and I put two (or more) bids with the same value
* **{Q}** The system registers only the first one **(“ERROR”)**

Feature: Make a bid on an auction

Scenario: Make a bid on an auction that I own

* **{P}** I am in the search engine
* I looks for my auctions
* **{Q}** Cannot find them (neither by object type nor by username)

Feature: Make a bid on an auction

Scenario: Make a bid on an auction that is ended

* **{P}** I am in the search engine
* I looks for an auction that is ended
* **{Q}** Cannot find them (plus, only opened auctions have the link “make a bid”)

Feature: Winning an auction

Scenario: Winning an auction

* **{P}** I have the lowest and unique bid B among all the others ( on the same auction A)
* The time T (on the auction A) ends up
* **{Q}** I win the auction, and I receive the notification in my homepage

Feature: Losing an auction

Scenario: Losing an auction

* **{P}** I do not have the lowest and unique bid on the auction A, still I have at least a bid B on that auction
* The time T (on the auction A) ends up
* **{Q}** I lose the auction, and I receive the notification in my homepage

Feature: Search Engine

Scenario: Looking for a user/object that exists

* **{P}** I am in the serach engine form
* I looks for a user/object type that exists ( in the second case the auction on that object must be open )
* **{Q}** All the matching results are displayed

Feature: Search Engine

Scenario: Looking for a user/object that doesn’t exist

* **{P}** I am in the serach engine form
* I looks for a user/object type that doesn’t exist ( in the second case the auction on that object must be open )
* **{Q}** No result is displayed **(ERROR: “No Users/Auction Items Found” )**

Feature: Ranking Users

Scenario: Ranking an auctioneer

* **{P}** I am in the homepage
* I looks for a auctioneer to be ranked
* **{Q}** For each object Auction A that I won, I can vote (only once per Auction) the auctioneer. I should be shown the list of auctioneer and the form