



Politecnico Di Milano
Facoltà di Ingegneria dell' Informazione
(Computer Science Engineering)

SOFTWARE ENGINEERING II PROJECT

Part III: **Test Cases**

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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 in the system
- When 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
- {Q} The system should not accept me and 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
- When 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
- When 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 receive 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 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} I am in my “History of my bids” or in “My open bids” page
- When 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)
- When I find an auction and I put one (or more) bids on that
- {Q} The bids are registered on the auction’s details

Scenario: Make a bid on an auction that I own

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

Scenario: Make a bid on an auction that is ended

- {P} I am in the search engine
- When 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)
- When 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
- When 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 search engine form
- When I look 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

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

- {P} I am in the search engine form
- When I look 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
- When I look for an 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.