

**Politecnico Di Milano**

Facoltà di Ingegneria dell' Informazione

(Computer Science Engineering)

SOFTWARE ENGINEERING II PROJECT

Part III: **Test Cases**

Prof.ssa: **Di Nitto**

**A.A. 2014/15**

Project Title: **BidWin**

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

**Emanuele La Malfa Davide Malvestiti**

**M**atr: **841042 M**atr: **773345**

**emanuele.lamalfa@mail.polimi.it davide.malvestiti@mail.polimi.it**

# Test cases on the project ****GuessBid-SE2Project-Scura-Volpi****

Link: <https://github.com/John-Dark/GuessBid-SE2Project-Scura-Volpi>

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

We think that since GuessBid 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}**

The compliant test are **written in black,** while the **non-compliant in red.**

**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: Recharge Pocket

Scenario: Recharge pocket

* **{P}** I am logged in and I’m in the recharge pocket page
* When I insert a number
* **{Q}** the system should add that amount to the total pocket counter.Please note that inserting a long integer, a letter or a non-integer number will fail the test(“javax.servlet.ServletException: java.lang.NumberFormatException: For input string”).

**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. Please note that creating a new auction with the very same fields will succeed (feature?).

And please note that the auction duration set to 120 hours by default, without the possibility to scale it.

**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 or the home page which automatically displays some auction)
* When I find an auction and I put one bids on that
* **{Q}** The bid is 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 bid on them

**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}** You can bid on them, the auction counter goes negative but you can still 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}** You cannot win an auction, the auctions do not end up ( negative counter )

**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}** You cannot lose an auction, the auctions do not end up ( negative counter )

**Feature**: Managing closed bids (history)

**Scenario**: Going to the “History” page by searching in the search engine

* **{P}** I am in my home page
* When I click look for the “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.Doesn’t work, probably due to the problem with the auctions (see previous tests)

**Feature**: Search Engine

**Scenario**: Looking for an object that exists

* **{P}** I am in the search engine form
* When 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

**Scenario**: Looking for an object that doesn’t exist

* **{P}** I am in the search engine form
* When I looks for an object type that doesn’t exist
* **{Q}** No result is displayed

**Final considerations:**

**We talked with our colleagues and they said the system works properly in any condition: our result diverges al lot in several cases.**

**This result do not mean necessarily that the system is unusable: we need a cross validation by a third part that could say who is wrong and who is right.**