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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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## 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.**