School of Electrical Engineering, Belgrade

Coursework for Software Engineering Principles (SI3PSI)

**Project: CodeUp**

*Use case specification for Submitting problem solutions*

Document version: 1.0

**Name:**

Submitting problem solutions

**Identifier**

UC5

**Description** (*A* c*ouple of sentences or a paragraph describing the basic idea of the use case****)***

User has selected problem statement he wants to solve, and the page corresponding to that problem statement is shown. That page consists of the description of the problem statement, few test cases and the editor they use to type their code into. Users have the option of submitting their solutions or they can test their code against custom input. After submitting them, their solutions are tested against our secret test cases, and the feedback is sent to our users, so they can know If their solution is correct.

**Goal** (*The business goal of the initiating actor*)

Users can submit their solutions to specific problem statements, so they can check if their solution is correct.

**Preconditions** (*List the state(s) the system can be in before this use case starts*)

1. User has an account on CodeUp web platform.

**Assumptions** (*Optional, List all assumptions that have been made)*

**Frequency** (*Approximately how often this use case is realized, e.g., once a week, 500 times a day, etc*.)

Often, as this is the main functionality of our platform.

**Basic Course** (*Describe the “normal” processing path, aka, the Happy Path*)

1. User visits page corresponding to the problem statement that he chose.
2. System presents a description of the chosen problem statement.
3. User types his solution in the language of his choosing, into the editor.
4. User submits his solution.
5. System checks if that solution is correct.
6. System sends information that says either the solution is correct or not.

**Alternate Course A:** Success in step 6

**Condition:** Solution is correct.

A.1. User is rewarded with some amount of points for successfully solving the problem.

A.2. User is redirected to the page with some other problem statement.

**Alternate Course B:** Error in step 6.

**Condition:** Solution is incorrect.

B.1. User is taken back to the step 3.

**Post conditions** (*List the state(s) the system can be in when this use case ends*)

**Actors** (*List of actors that participate in the use case*)

**Notes**

*List any "to dos", concerns to be addressed, important decisions made during the development of this use case*, …