Requirement specification 1.0c UML->Code

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Application for convert UML patterns to code examples presented in php reminding pseudo code.

## 

## Supplementary specification

System Quality Requirements

1. The system should respond to input in an acceptable timeframe.
2. The system should be user-friendly
   1. System provides helpful messages.
   2. Try generate code from correct user input, while show message for wrong input.
3. The system should be secure
   1. SQL injections
   2. Password handling
   3. Session hijacking

**UC1 Generate Code From UML**

**Main scenario**

1. **System show user a view where user can submit text representing UML diagram.**
2. **User write text representing an UML diagram in given correct text syntax then user submit.**
3. **System present a split view consisting previous written text syntax and also php reminding pseudo code representing written UML diagram structure.**

**Alternative scenario**

1. **a User can not understand in what syntax to write UML diagram in.**
2. **User press get example code button.**
3. **System paste into input field an example code.**
4. **a**
5. **User write uml code in wrong format.**
6. **System try generate code from the parts that was correct. But present error messages of the part that could’t be interpreted.**

**UC2 Register user**

**Main scenario**

1. **System show register form.**
2. **user fill in credentials and press register.**
3. **system save user and redirect to application and present welcome message..**

**Alternative scenario**

1. **a The user provide incorrect credentials.**
2. **System present error message indicating what was wrong.**
3. **Step 2 in main scenario.**

**UC3 Authenticate user**

**Main scenario**

1. **User want to authenticate.**
2. **System show neassary credentials. And ask if user want to save credentials.**
3. **User apply credentials and submit.**
4. **System authenticate user redirect to another page and present a confirmation message.**

**Alternative scenario**

1. **a User want to save credentials for automatic login.**
2. **The system authenticate user and show user that credentials was saved for a certain time.**
3. **a The user provide incorrect credentials.**
4. **System present error message indicating what was wrong.**
5. **Step 2 in main scenario.**

**UC4 Save Code Examples**

**Preconditions: UC1 Generate Code From UML**

**UC2 Authenticated user**

**Main scenario**

1. **User want to save pseudo code.**
2. **System show a save choise.**
3. **User submit savename. and press submit.**
4. **System store pseudo code. and present a confirmation message.**

**Alternative Scenario**

1. **a The user provide incorrect input.**
2. **System present error message indicating what was wrong.**
3. **Step 2 in main scenario.**

**UC5 Load saved Code examples**

**Preconditions:**

**UC2 Authenticated user**

**UC3 Save Code Examples**

**Main scenario**

1. **System present a load option for saved pseudo code by this user.**
2. **User select what previously saved pseudo code to load and press submit.**
3. **System present selected code example for user.**

**Alternative scenario**

1. **a The user has no saved projects.**
2. **System present error message indicating no projects exist.**
3. **Step 2 in main scenario.**

**UC6 Zip code examples for user.**

**Preconditions:**

**UC2 Authenticated user**

**Main scenario**

1. **System present an option to save code locally.**
2. **User choose to download code.**
3. **System create files and present download link for browser.**
4. **User confirms and download.**