

Drop the Code

<https://github.com/petetetete/cs386-project>

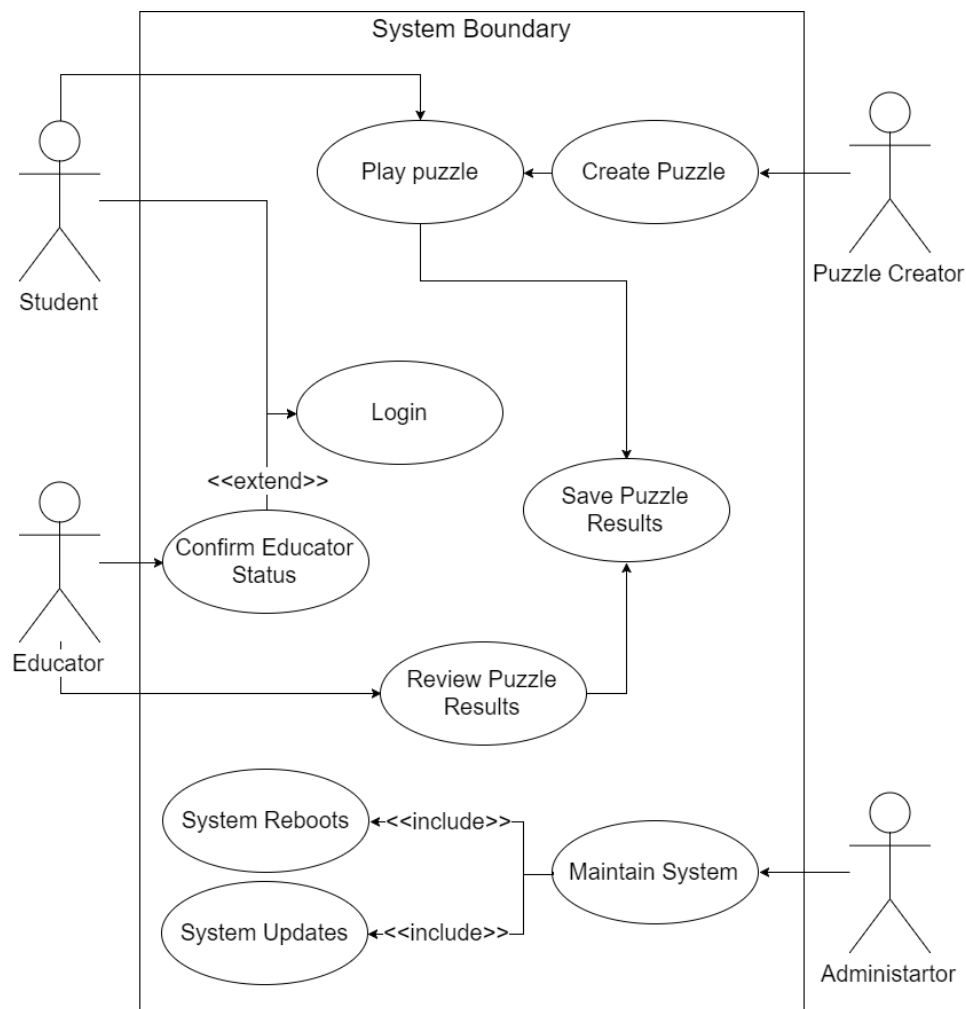
D2.2 – Use Cases

CS 386 – Software Engineering

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System Use Case Diagram:



Use Case Descriptions:

<i>Hayden's Complete Use Case</i>
<p>Use Case: Selecting a Puzzle to Solve</p> <p>Actor: Any User</p> <p>Description: The user will be able to choose from a list of puzzles to solve</p> <p>Preconditions: The user has the app downloaded and open</p> <p>Post-conditions: The system is displaying the appropriate puzzle</p> <p>Main Flow:</p> <ol style="list-style-type: none">1. The user selects the Puzzles tab on the home screen2. The system pulls up the list of puzzles the user can choose from3. The user scrolls through the list of puzzles and chooses the one they wish to work on4. The system fetches the selected puzzle and displays it for the user <p>Alternative Flows:</p> <ul style="list-style-type: none">*. At any time, the user closes the application<ol style="list-style-type: none">1. The system stops attempting to fetch puzzles*. The user pushes the Back button to return to the list of puzzles at any time<ol style="list-style-type: none">1. The system fetches the list of puzzles again*. The user pushes the Next Puzzle or Previous Puzzle button<ol style="list-style-type: none">1. The system fetches the appropriate puzzle and updates the display
<i>Gage's Complete Use Case</i>
<p>Use Case: Educator checking a student's progress</p> <p>Actor: Educator</p> <p>Description: The educator checks a student's progress to evaluate their skill within the app.</p> <p>Preconditions: The educator is logged into the app and on the main screen.</p> <p>Post-conditions: The educator will be presented the information they need.</p> <p>Main Flow:</p> <ol style="list-style-type: none">1. On the main menu, the user selects the "educator" tab2. The system fetches and displays the groups with which the user is an educator3. The user chooses a group to inspect4. The system fetches the data for the students who are signed up in that particular group <p>Alternative Flows:</p> <ul style="list-style-type: none">*. At any time, the user closes the application<ol style="list-style-type: none">1. The system removes student progress display

Peter's Complete Use Case

Use Case: Challenge Friend to Code Battle

Actor: Any User

Description: The application user wants to challenge a friend to a coding competition.

Preconditions: The user is logged into the application and has a friend registered in the app.

Post-conditions: The challenge request is sent and the user is awaiting a response.

Main Flow:

1. The user selects the friend list tab
2. The system fetches and displays the user's online friends
3. The user chooses a friend from the list
4. The system retrieves the friend's profile info and displays it
5. The user informs the system that they would like to challenge the friend to a Code Battle
6. The system stores and sends the challenge to the friend.

Alternative Flows:

*. At any time, the user closes the application

1. The system does not send the challenge

6a. The user cancels the challenge

1. The system removes the challenge and removes any notification for the other player

Garrison's Complete Use Case

Use Case: Changing the difficulty settings

Actor: Any User

Description: The User will have the ability to change the difficulty settings of the puzzles

Preconditions: The user has the application downloaded and is registered

Post-conditions: The user has changed their difficulty setting in the system

Main Flow:

1. The user selects the settings button
2. The system fetches and displays the settings page
3. The user selects the difficulty tab
4. The system fetches and displays the difficulty settings
5. The user selects the difficulty setting they want
6. The system saves the user's new difficulty setting

Alternative Flows:

*. At any time, the user closes the application

1. The system does not change the difficulty

1a. The user does not register an account

1. The system selects the default difficulty settings

Group Participation:

Peter – Created the original document structure, templated the use case descriptions, and formatted the document. Provided a use case description, edited other use cases, and created the total system use case diagram.

Hayden – Did a use case scenario.

Garrison – Did a use case scenario.

Gage – Did a use case scenario.