USE CASE: TESTING ARENA – EDIT CODE

BASIC COURSE:

The Testing Arena Webpage displays the Player Tab for a specific player to the user. The user selects the Edit Code radio button. The Testing Arena Webpage displays the Edit Code menu to the user. The User modifies the text in the Code Editor. The Testing Arena Webpage disables the Next Turn button. The user types their code into the Code Editor and selects the Upload Bot button. The Bot Uploader confirms the text in the Code Editor is not empty and does not exceed the text length limit. The Bot Uploader uploads the text as a string to the Server. The Server stores the text as a Java file in the Bot Database. The Bot Database sends the Server the Bot ID upon successful upload and compilation. The Server sends the confirmation message and the Bot ID to the Bot Uploader. The Bot Uploader then sends the confirmation message to the Testing Arena Webpage. The Bot Uploader also sends the Bot ID to the Testing Arena Controller. The Testing Arena Webpage displays the confirmation message to the user and enables the next turn button.

ALTERNATE COURSES:

Code Editor is empty: The Testing Arena Webpage displays an error to the user stating that the Code Editor is empty.

Text in Code Editor exceeds text length limit: The Testing Arena Webpage displays an error to the user stating that the text in the Code Editor exceeds the text length limit.

The Bot Uploader doesn't receive a response within a specified time: The Bot Uploader sends a bot upload timeout error to the Testing Arena Webpage. The Testing Arena Webpage displays an error to the user stating that the bot upload request has timed out.

Bot did not compile successfully: The Bot Database sends the Server a message including the errors that occurred during compilation. The Server sends the message to the Bot Uploader. The Bot Uploader sends the message to the Testing Arena Webpage. The Testing Arena Webpage then displays the compilation errors to user.

Error occurred while storing the Bot in the Bot Database: The Bot Database sends the Server an error message indicating the error that occurred. The Server sends the error message to the Bot Uploader. The Bot Uploader sends the error message to the Testing Arena Webpage. The Testing Arena Webpage then displays the error to user.