**User Interface Specifications**

**for**

**CZ3003 Hydra-Defence**

**Version 1.0 approved**

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**User Interfaces**

**Login**

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| **Login Page**  *Allows user to login to either student or teacher account using the dropdown menu*  **Buttons:**   * “Login”   + Loads Student’s Main Menu if student’s inputs are valid   + Loads Teacher’s Main Menu if teacher’s inputs are valid * “Create New Account” - loads Register Interface * “Exit” - closes the application |
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| *An error message is displayed if user clicks on the “Login” button with empty field(s)* |
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| *An error message is displayed if user clicks on the “Login” button with wrong username or password* |

**Register**

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| **Register Page**  **Buttons:**   * “Register” - loads Avatar Selection Page if inputs are valid * “Back” - loads Login Interface |
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| *An error message is displayed if user clicks on the “Register” button with empty field(s)* |
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| *An error message is displayed if user clicks on the “Register” button after entering an existing username* |
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| *An error message is displayed if user clicks on the “Register” button with different values for the Password field and the Create Password field* |
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| **Avatar Selection Page**  *Allows user to choose avatar after creating a new account*  **Button:**   * *Avatar* - loads Login Page |

**Student’s Main Menu**

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| **Student’s Main Menu**  **Buttons:**   * “Story Mode” - loads Story Mode Interface * “PVP” - loads PVP Mode Interface * “Leaderboard” - loads Leaderboard Interface * “Assignment” - loads Assignment Interface * “Logout” - loads Login Interface |

**Story Mode**

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| **World Selection Page**  **Button:**   * “Main Menu” - loads Student’s Main Menu   *World* - loads Section Selection Page |
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| **Section Selection Page**  **Button:**   * “Main Menu” - loads Student’s Main Menu   *Section* - loads Level Selection Page |
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| **Level Selection Page**  **Button:**   * “Main Menu” - loads Student’s Main Menu   *Level* - loads Quiz Page |

**Quiz**

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| **Quiz Page**  **Button:**   * “Next Question”   + Before game: loads the next Quiz Page. If all questions are answered, loads Quiz Ended Page   + During game: loads Gameplay Page |
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| **Quiz Ended Page**  **Button:**   * “Proceed to game” - loads Gameplay Page |

**Gameplay**

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| **Gameplay Page**  **Button:**   * “Extra Questions” - loads Quiz Page |
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| **Victory Page**  *This page is loaded if the user completes the level*  **Buttons:**   * “Retry” - loads Gameplay Page * “Menu” - loads Student’s Main Menu |
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| **Game Over Page**  *This page is loaded if the user did not complete the level*  **Buttons:**   * “Retry” - loads Gameplay Interface * “Menu” - loads Student’s Main Menu |

**PVP Mode**

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| **PVP Menu**  **Buttons:**   * “Create Room” - loads Create Room Page * “Join Room” - loads Join Room Page * “Main Menu” - loads Student’s Main Menu |

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| **Create Room Page**  *Allows users to select the world, section and level for the PVP game*  **Button:**   * “Create Game” - loads Access Code Page |
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| **Access Code Page**  *Displays the access code for the PVP room created*  **Button:**   * “Back to menu” - loads PVP Menu |
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| **Join Room Page**  **Button:**   * “Join Room” - loads Quiz page if a valid access code is entered |
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| *An error message is displayed if user clicks on the “Join Room” button after entering an invalid access code* |
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| **Waiting Page**  *This page is loaded after the user finished playing the game for PVP mode before the opponent* |
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| **Winner Page**  *The winner for the PVP game is displayed after both users finished playing the game*  **Button:**   * “Main Menu” - loads Student’s Main Menu |

**Leaderboard**

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| **Leaderboard Page**  **Button:**   * “Main Menu” - loads Student’s Main Menu |

**Assignment**

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| **Assignment Menu**  **Buttons**   * “Submit” - loads Instruction Page if valid access code is entered * “Main Menu” - loads Student’s Main Menu |
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| *An error message is displayed if user clicks on “Submit” button with empty access code field* |
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| *An error message is displayed if user clicks on “Submit” button after entering an invalid access code* |
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| **Instruction Page**  **Button:**   * “Start Assignment”   + Loads Question Page if there are more than one question   + Loads Last Question Page if there is only one question |
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| **Question Page**  **Button:**   * “Next Question”   + Loads the next Question Page if there are more than one question left   + Loads Last Question Page if there is only one question left |

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| **Last Question Page**  **Button:**   * Loads Completed Page |
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| **Completed Page**  **Button**   * “Return to Main Menu” - loads Student’s Main Menu |

**Teacher’s Main Menu**

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| **Teacher’s Main Menu**  **Buttons:**   * “Quiz Report” - loads Quiz Report Page * “Assignment Report” - loads Assignment Report Page * “Logout” - loads Login Page |

**Quiz Report**

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| **Quiz Report Page**  **Button:**   * “Back” - loads Teacher’s Main Menu |

**Assignment Report**

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| **Assignment Report Page**  *Allows user to view the report for different assignments by selecting the access code using the dropdown menu*  **Button:**   * “Back” - loads Teacher’s Main Menu |

**Assignment Creation**

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| **Assignment Creation Login Page**  **Button:**   * “Login” - loads Assignment Creation Main Menu if inputs are valid |
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| *An error message is displayed if user clicks on the “Login” button with empty field(s)* |
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| **Assignment Creation Main Menu**  **Buttons:**   * “Logout” - loads Assignment Creation Login Page * “Continue” - loads Set Question Page if inputs are valid |
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| *An error message is displayed if user clicks on “Continue” button with empty field(s)* |
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| **Set Question Page**  *User can modify each question by clicking on the question number at the left side*  **Buttons:**   * “Import Question” - loads Import Question Page * “Cancel Assignment” - loads Assignment Creation Main Menu * “Create Assignment” - loads Success Page if inputs are valid |
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| *An error message is displayed if inputs are invalid* |
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| **Import Question Page**  *Allows user to import questions from different topic, sub topic and difficulty level using the dropdown menu*  **Button:**   * “Find Question” - loads Question Bank Page |

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| **Question Bank Page**  *Allows user to choose which question to import*  **Button:**   * “Save as question” - loads Set Question Page |
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| **Success Page**  *Allows user to share the message to social media by clicking on the social media icons*  **Buttons:**   * “Main Menu” - loads Assignment Creation Main Menu |