USE CASE SPECIFICATIONS

1. **Feature** : Viewing the homepage of the game and choosing ‘Easy’ level

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| **Use Case Name:** view homepage and select a difficulty level |
| **Brief Description:** A player wishes to launch the game and select the ‘Easy’ level for playing |
| **Actors:** Player |
| **Basic Flow:**   1. The player launches the quiz game of design patterns 2. The game displays the homepage which contains three buttons ‘Easy’, ‘Medium’, ‘Hard’ 3. The player selects the ‘Easy’ button to play the game |
| **Alternate Flow:**   1. The player may select ‘Medium’ or ‘Hard’ level for playing the quiz game |
| **Preconditions:**   1. The player should know how to launch the game 2. The player should decide which difficulty level to play for |
| **Success Guarantee:**  After selecting the Easy button, the player is re-directed to the questions page |
| **Minimal Guarantee:**  After selecting the Easy button, the player is re-directed to the questions page |

1. **Feature** : Viewing the questions page of the quiz, answering quiz questions and viewing hints for a particular question

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| **Use Case Name:** view questions page, select answers and view hints |
| **Brief Description:** A player wishes to view the questions, select answers for them and also optionally view hints for any question |
| **Actors:** Player |
| **Basic Flow:**   1. The player comes to the questions page by selecting any difficulty level 2. The player can see a blank image. Below that the questions is displayed and after that four radio buttons for four options are displayed 3. The player reads the question and selects any one of the four answers and selects ‘next’ 4. After selecting ‘Next’ the player is re-directed to the next question 5. Now the player clicks on the ‘Hint’ button. On clicking the ‘Hint’ button once, only one portion of the image is displayed for the particular design pattern. 6. On clicking the ‘Hint’ button twice, half of the image is displayed. 7. After seeing the hint, player selects one answer and clicks ‘Next’ for the next question. |
| **Alternate Flow:**  The player decides to go back to the homepage instead of continuing with the quiz |
| **Preconditions:**  The player has selected any difficulty level on the homepage |
| **Success Guarantee:**  All the answers the players gives are recorded and will be used for score  calculation |
| **Minimal Guarantee:**  After selecting the ‘Next’ button, the next question in the list appears with  Another set of options and a hint image. |

1. **Feature** : Going back to home page in middle of the game and returning to the question from where player left the game (saving the progress of the game)

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| **Use Case Name:** going to homepage in middle of the game |
| **Brief Description:** A player wishes to discontinue the existing game and goes back to the homepage to play the game of another difficulty type |
| **Actors:** Player |
| **Basic Flow:**   1. The player presses the ‘Home’ button on the top right corner of the questions page of the ‘Easy’ quiz type 2. The player is re-directed to the homepage which again has three buttons for selecting difficulty level. 3. The player selects ‘Medium’ level and plays two question and again clicks ‘Home’ button. 4. Now, when the player again clicks ‘Easy’ button, he/she lands on the page from where the questions are left to be answered. 5. The player then continues playing. |
| **Alternate Flow:**  The player comes to the homepage and do not want to play any other game |
| **Preconditions:**  The player has answered at least 1-2 questions of any difficulty level before  clicking on the ‘Home’ button |
| **Success Guarantee:**  The last played state of the player will be stored and he/she can return to the  questions from where he/she left the game any time |
| **Minimal Guarantee:**  After selecting the ‘Home’ button, the player is re-directed to the home page. |

1. **Feature** : Viewing the final scores page

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| **Use Case Name:** view the final page |
| **Brief Description:** A player wishes to view his/her score and review which questions were right and which were wrong |
| **Actors:** Player |
| **Basic Flow:**   1. The player clicks the ‘Next’ button at the last question of the quiz. 2. The player is re-directed to the final page. 3. The player can view his/her points scored in the quiz. 4. The player can also see the right answers of the questions and his/her own chosen answers |
| **Alternate Flow:**  The player may not complete all the questions and keeps going back to the  homepage |
| **Preconditions:**  To view the final score page, the player attempts all the questions for a  particular level of difficulty |
| **Success Guarantee:**  The score is rightly calculated based on the answers given by the player and a  list of right answers and chosen answers is displayed |
| **Minimal Guarantee:**  The score is rightly calculated based on the answers given by the player and a  list of right answers and chosen answers is displayed |