**REQUIREMENT ANALYSIS (9/13/2019)**

**USER REQUIREMENTS DEFINITION**

1. The Hangman system shall provide a Game Mode in which single user or multiple users can participate.
2. The Hangman system will display a scoreboard.
3. The Hangman system will provide an Admin feature.
4. Any users of Hangman system at any time can forfeit and stop the game.

**SYSTEM REQUIREMENTS SPECIFICATION**

* 1. Each user can play hangman in single user mode.
  2. Each user can invite other user for the game.
  3. Each user can accept other user invitation for the game.
  4. Multiple users can form team and continue the game.
  5. Each user of the team takes turn to continue the game.
  6. When a user of the team is playing the game, other users of the team can hint the guess but cannot complete the game
  7. At the end of the session, the Hangman system will store all users’ score and display it in ascending order.
  8. The display board will have each user’s name against the game score that user has achieved.

3.1 The category menu will be a dropdown menu with Administrator control.

3.2 Admin shall manage Creation and deletion of Users, Invite Approval of users into team mode.

4.1 The Hangman systems shall provide with a Stop feature that enable users to discontinue the game at any given point of the time.

4.2 Before the Stop button is executed, the Hangman system shall record the score of the user and update the scoreboard.

**Functional requirements**

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| --- | --- | --- | --- |
| Services the System should provide | System reaction to the particular input | How the system should behave at the particular input | What system should not do |
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**Non-Functional requirements**

[Time Constraints, Constraints on development process, Constrains imposed by standards]

1. The application will load on the webpage/mobile app within 5second. (Performance)
2. Admin feature will have login to execute their permission (Security)
3. Easy to use for all kind of people with or without any experience related with computer.

**User Stories**

1. Jack wants to play a hangman game online. He wants to play in a single user mode where his scores are recorded and displayed in a board. He wants to play multiple rounds continuously until he decides to quit the game.
2. Jack wants to not only play with multiple users but also make groups and compete against each group. He invites and make group, which can simultaneously play the game.
3. Jack wants to play a hangman game online. He wants to play with other users. He hasn’t found any online gaming services that provide multiple users to connect and play against each other for scores. He would like to invite his friends to join him or could like to be invited into a group to complete the game. He likes to have a score displayed at the end of the game so that he can track whose is leading in the game.
4. Jack wants to have admin features where he can login in and control the users choice of inviting other users. He would like to add some of his friends as users or sometime delete the existing users.