3. Functional Requirements Specification

**3.1 Stakeholders**

Stakeholders include but not limited to:

* The product owners
* Young children (three to seven years old)
* Parents of young children
* NI Education and Library Board
* Primary school teachers

**3.2 Actors and Goals**

*Identify the roles of people or devices that will directly interact with the system, their types (initiating vs. participating) and the goals of the initiating actors.*

The people who will directly interact with the system are children aged three to seven. Their goal will be to complete all of the levels of their age range with as high a score as possible.

**3.3 Use Cases**

***Casual Description:*** *For all use cases that you can think of (based on your System Requirements), write a brief or casual text description. List explicitly the requirements that each use case responds to.*

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Related Requirement(s)** |
| 1. | User wants to select a quiz to do based on their age. |  |
| 2. | User wants to select a level to do within a quiz. |  |
| 3. | User wants to view their high scores. |  |
|  |  |  |

***Use Case Diagram:*** *Draw the use case diagram with all the use cases. Indicate the relationships, such as <<include>> and <<extend>>.*

***Traceability Matrix:*** *Show how your system requirements map to your use cases. Calculate the priority weights of your use cases. The use cases with the highest priority should be elaborated and planned.*

***Fully-Dressed Description:*** *Select a few most important use cases and provide detailed (“fully dressed”) description. The “most important” use cases are indicated by your traceability matrix. Your event flows must show step-by-step every action that the initiating actor (“user”) can take while running the given use case.*

**3.4 System Sequence Diagrams**

*Draw the system sequence diagrams for the few most important use cases selected above.*

**Sample Report**

**Use Cases**

For the purpose of this exercise ‘Glentoran’ has been used as an example. The use cases listed are relevant to all teams contained within the IFA Premiership.

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Related Requirement(s)** |
| 1. | User wants to find the contact number for Glentoran regarding purchase of tickets. | 1, 5. |
| 2. | User wants to find a map to Glentoran’s ground ‘The Oval’ for an upcoming away game. | 1, 4. |
| 3. | User has highlighted ‘Stuart Elliot’ as their favourite player and wants to determine how many goals he has score this season. | 1, 6, 7. |
| 7. | Users want to be able to see news on their favourite teams. | 1, 2. |

