6. System requirement specification

6.1 Function Requirements

This section **Function Requirements** contains the specification of function requirements of the system, below tables are the lists of function requirements

6.1.1 Manage Articles [MA]:

Requirement ID	Requirement Description
MA 1	System allow users who are logged to it to **(Add / Upload)** New articles
MA 2	System allow user who are logged to it to **(Update)** his articles
MA 3	System allow user who are logged to it to **(Delete)** his articles
MA 4	System allow user who are logged to it to **(read articles statistics)** his articles

Table 1 Manage Articles

6.1.2 Audio reader [AR]:

Requirement ID	Requirement Description
AR1	System allow users who Enable **Audio Reader** with music in background
AR2	System allow users who disable **Audio Reader** with music in background

Table 2 Audio Reader

6.1.3 Generating Mind-map [GM]:

Requirement ID	Requirement Description
GM1	System **generating mind map automatically** To the uploaded Articles

Table 3 Mind Map

6.2 Non-Functional Requirement

6.2.1: Performance Requirement [PR]

Requirement ID	Requirement Description
PR1	System must respond The Operations in less 7 seconds for user
PR2	The System should be compatible with all android versions and browsers
PR3	"**Accessibility/direct access**" System should be **accessible** for all
PR4	"**Maintainability**" Make the system capable to use in order to achieve a particular goal
PR5	**"Extensibility"** The ability to make extend a system and this is by can be through the modification of previously existing functionality or through addition of new functionality in the system
PR6	**"Usability"** the system provide for user capability to use in order to achieve a particular goal
PR7	**"Privacy"** the system must be able to protect user information and articles from unauthorized person
PR8	**"Security"** the ability to provide protection to the system from attack and intrusions.

6.2.2: Safety and Security Requirement [SSR]:

Requirement ID	Requirement Description
SSR1	The System must handle safe login and logout through session.
SSR2	Hashing technology and Algorithms should be used to handle the secure login for users.
SSR3	The database should be secured from SQL Injection to prevent leak or loss of information
SSR4	The system could use SSL (Secured Socket Layer) certificates to secure the data transmitted.

6.2.3: Reliability [R]:

System should be designed in modular manner to ease in software maintenance. By designing modularly, we are able to reduce coupling allowing each module to perform a specific function.

Requirement ID	Requirement Description
R1	The Program should be reliable and provide catching of exceptions so that unintended result do not occur such as system crashes or data validation failure.

6.2.4 Other Software Quality Attributes:

6.2.4.1 Usability:

Usability the system provide for user capability to use in order to achieve a particular goal.

The system should have user-friendly interface

6.2.4.2 Availability:

The system must be available 24/7, with no more than 20 minutes down time per day