1. **Introduction**

**1.1 Purpose**

The purpose of this document is to build an online news portal to show various news of the Tezpur University Campus

**1.2 Intended Audience**

This project is restricted to the University campus and has been designed under the University guidance. This project is useful to the college authority as well as the students.

**1.3 Intended Use**

This project is to be used to store and display news about the Tezpur Univeristy campus.

**1.4 Scope**

The system will have a central DB housing all the news articles. The server Admin is responsible for pushing latest news into the data store. Representatives from University and Hostels will validate the news. Users can view all the present articles in an aesthetically pleasing User Interface.

**1.5 Definitions and Acronyms**

The document uses the following terms

|  |  |
| --- | --- |
| Terms | Meaning |
| DB | Database |
| Admin | Person who controls the DB |
| User | Standard user who interacts with the app without any special privileges |
| UI | User Interface |

1. **Overall Description**

**2.1 User Needs**

There will be two categories of users using this app. The normal users will simply browser through the news items without any special privileges. Then there will be the admin who will be able to delete and add news articles onto the DB.

**2.2 Assumptions and Dependencies**

The software is directly dependent on the central DB. Any changes or modifications there will reflect on the app. Since the app will fetch data from Google Firebase internet connection is a primary requirement. We assume the user’s mobile has an active data connection. In the absence of which the app may fail.

**3. System Features and Requirements**

**3.1 Functional Requirements**

**3.1.1 Login for Admin**

A login section specifically designed for the Admin. No other users will have access to this section.

**3.1.2 Post news articles**

Admin will post news articles onto the DB which will be displayed on the app.

**3.1.3 Browse articles**

The user will have a UI to browse news articles. There will be navigation buttons to move forward and backwards to view articles

**3.2 External Interface Requirements**

The system will provide the following types of easy-to-use, interactive, and intuitive graphical and telephonic interfaces.

**3.2.1** The system will provide an easy-to-use, intuitive Graphical User Interface (GUI) as part of the Admin panel.

**3.2.2** The system will also provide an interactive GUI for the general users.

**3.3 Nonfunctional Requirements**

**3.3.1 Performance**

The system shall be able to handle huge databases efficiently and quickly.

**3.3.2 Reliability**

**3.3.2.1**  The system shall be available 24 hours a day, 7 days a week.

**3.3.2.2** The app will be protected against sudden crashes and data loss

**3.3.3 Usability**

**3.3.3.1** This system shall provide an easy-to-use UI so that the users do not have to learn a new style of interaction.

**3.3.3.2** The UI should be intuitive and easily navigable. Users should be able to understand the menu and options provided by the system.

**3.3.4 Integrity**

**3.3.4.1** The system should be secure and must use encryption to protect the databases.

**3.3.4.2** Users need to be authenticated before having access to any sensitive data.