



**Bangabandhu Sheikh Mujibur Rahman Digital University, Bangladesh**

**Faculty of Cyber Physical Systems**

**Department of Internet of Things and Robotics Engineering**

**B.Sc. in Internet of Things and Robotics Engineering**

## **Project Requirements**

### **Report Information:**

**Course Title:** Software Engineering Lab

**Course Code:** ICT 4354

### **Submitted To:**

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**Group Name:** Team\_NULL()

**Project Title:** Krishi Hut – A Market Place for Farmers

**Project GitHub Link:** [https://github.com/rhr007/Krishi\\_Hut.git](https://github.com/rhr007/Krishi_Hut.git)

- **Functional Requirements:**

Functional requirements describe the specific behaviors and functionalities that the system must exhibit to meet the user's needs. These include inputs, processes, outputs, and interactions within the system.

1. Users can register an account by verifying email or mobile number with an OTP.
2. Users can login to their verified account.
3. Users can customize and update their profile.
4. Users can see different types of ads of products related to agriculture on their dashboard.
5. Users can search their desirable products based on categories and use filters (ex. Area).
6. Users can observe ads and can communicate with the ad owner.
7. Users can post ads.
8. Admin can review and accept ads.
9. Admin will verify new users' identity.
10. Admin can delete ads and users based on user's requirements and ratings.
11. Admin can create community of people from surrounding areas.
12. Everyone will get proper notifications from the system based on their preferences.

- **Non-Functional Requirements:**

Non-functional requirements define the quality attributes and performance standards of the system, ensuring it operates effectively and efficiently.

1. Quality: System must maintain an improved quality in every aspect.
2. Authenticity: System will serve the actual owner of the account.
3. Cross-Platform: Availability of the system on multiple platforms.
4. Maintainability: Addition, Deletion and updation any requirement if possible.
5. Usability: User flexibility (easy to configure the system and can train as per its convenience).
6. Performance: Response time will be very fast.
7. Security: Both for the physical installation and from a cyber perspective.
8. Reliability: This system will work 24/7.

- **System Requirements:**

System requirements outline the hardware, software, and infrastructure necessary for the product to function correctly. These requirements ensure that the system operates as intended and meets both user and technical needs.

1. Hardware Requirements:
  - Processor: SoC based ARM processor with 4 cores.
  - Memory: Minimum 100 MB
  - Storage: Minimum 250 MB
2. Software Requirements:
  - Operating System: Android or IOS

3. Network Requirements: Networks which has internet access.