SRS DOCUMENT

# Project Title:

Our web app is an online marketplace where IIITG members can post ads to buy and sell pre-owned goods like medicines, stationery, cycles etc. within the campus.

**1.** **Category**: Web Application

**2.** **Purpose**: Due to covid times, we provide an online platform where members of the IIITG family can safely buy/sell necessary products conveniently within the institute with minimal physical contact. Economically, this will lead to better utilisation of resources within college premises.

**3.** **Scope**: There are only verified users from IIITG which makes it a safe, reliable and efficient platform to provide goods at a discounted rate. Every Year, new students enter the institute premises which requires a need for a convenient system to promote the reusability of items with the added flexibility of a ‘no physical contact’ shopping environment.

**4.** **Introduction:**

**Existing System: (**Online)

1. The present system focuses on sellers posting a huge number of ads on the website for buyers to have a choice to buy goods from.

2. The website does not directly reflect the needs of the buyer but only the seller because the existing system’s primary goal is to bring value to unwanted goods of sellers.

3. An online marketplace for an institute should be used to promote upkeeping of all products that can be reused, even if they are small and insignificant for the existing system. Example: Stationery, Balls, Gloves, Slippers.

4. No method is currently available to judge the genuineness of a posted ad which leads to scamming and phishing.

**Proposed System**:

1. **REGISTRATION**: This platform is only for **verified users(✔)**; hence students and faculty have a free and easy sign-up and login facility and must use their institute email ids to keep the platform secure.

2. **TWO SECTIONS FOR ADS**: One section for sellers to post ads and one for buyers to post ads to provide a better experience for buyers’ needs. Sponsored Advertisement feature for better exposure of Advertisement. Make priorities by highlighting your Ads (by paying some amount).

3. **RATING SYSTEM**: Buyers can give stars to Sellers in form of feedback that is visible to all users.

4. **LIKING SYSTEM**: Users can upvote and downvote an ad to help keep a tally of their genuineness according to the community for a better recommendation of ads.

5. **SECURITY**: Quality of Life features like password encryption, inbuilt chatting system to avoid the necessity of sharing mobile numbers and maintaining users’ confidentiality. For safety, we use the instant messaging feature(chat option) between buyer and seller. Avoid other channels like WhatsApp, Skype, Messenger.

6.  **CATEGORIES**: Several Categories like Electronics, Stationery etc have been added that can be used as ‘Tags’ for ads.

7. **DASHBOARD**: If a person wants to sell a product, they’ll have their dashboard, which has a record of their previous and current ads; they can edit them according to their requirement

8. **SEARCH BAR**: To look for a particular product, we provide them with various filter options to specify their exact requirements.

**Advantages:**

1. **More Secure** for users because profiles are linked only to institute email ID.

2. **Promotes Sale of Small Products** by giving buyers the power to post ads which leads to efficient reusability.

3. **Better Ad management** by using the liking and ad verification system along with auto cooldown system where old ads get taken down.

4. **Popularity Count for sellers** which the buyers can check out to see if they are trustable.

5.  **Zero shipping cost/tax** of any sort, as the transaction, happens within the campus.

**6.** **Functional Requirements**

1. All the products will be listed to be viewed in the form of cards displaying the picture, price, short description, name of the seller, days posted ago.

2. Users will be able to choose between the categories of the products listed via the category bar.

3. Users will be able to search for products via the search bar.

4. To become a seller/buyer, the user will be able to sign up with an email registered with the college.

5. The user must provide name, roll number, room number, phone number, registered email address, photo, and password during the sign-up up process.

6. Registered users will be able to upload ads for their products via a form having inputs for the title, category, description, price, photos, and videos.

7. Registered users will be able to view, edit, delete all their listed product ads in a dashboard.

8. Users can downvote ads that seem fake to them or upvote deals that seem good to them, this can help the community significantly.

9. A buyer can report an ad if they find it suspicious or fake. The administrators will then access the reported ads and delete or discard them.

10. Users can chat with others to bargain or ask for personal details like the room number, once the deal is made.

**7.** **Non- Functional Requirements:**

1. 24\*7 Availability of the website.

2. Secure access to users’ confidential data.

3. Attractive and Simple UI – Highly User Friendly and faster load time.

4. A method/button to directly contact the Admin/Support.

**8.** **Software Tools:**

· **Database** : MySQL/MongoDB

· **Client**: Any web Browser

· **Programming Languages and Dependencies:**

1. **Front-End :** HTML, CSS, JavaScript., React.js(optional)

2. **Back-end**: Django

**9.** **Deployment :**

**Operating system server**: Windows, Linux, Mac

**10. Hardware Specifications:**

· **Processor**: Any processor that supports the current version of web browsers.

· **RAM**: 2GB and above.

· **Hard Disk**: 128 GB and above