Hardware Buyer App

Software Requirements Specification (SRS)

Version 0.1

Project Name	Shopkeeper Buyer App
Document Name	System Requirement Specification

Author	Reviewer	Approver
Signature	Signature	Signature

Document Version History

Version Number	Effective Date	Revision Details
Version 0.1		1. Splash Screen 2. Login Screen 3. Create Profile Screen 4. Home Screen 5. Product Screen 6. Product Information Screen 7. Settings Screen 8. Cart Screen 9. Manage Order Screen 10. Order History 11. Favourites Screen

Document Distribution

This document will be directly distributed to the following individuals.

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Table of Contents

1. Introduction

1.1 Purpose

The purpose of this document is to give a detailed description of the requirements for the "Buyer" mobile application. It will illustrate the purpose and complete declaration for the development of the system. It will also explain system constraints, interface, and interactions with other external applications.

1.2 Scope

The scope of this document is limited to features decided for phase 1 items.

1.3 Definition, acronyms and abbreviation

Abbreviation	Description
Web service	An internet application created specifically to allow other remote applications access to its functions and data.
Java	It is a programming language that is used to build the android mobile apps.
Android	It is a platform to run mobile application
Spring Boot	It is a java based frame work used to create a microservices.
Moqups	It is tool to design a mobile screen.

1.4 References

S.NO	Document Title	Document No.	Version	Author	Released Date
1	Amazon	NA	NA		NA
2	Flipkart	NA	NA		NA
3	Moms Cart	NA	NA		NA
4	Moqups	NA	NA		NA

1.5 Document Structure

Refer to the Table of Contents above.

2. System Requirements

2.1 System Overview

The purpose of this hardware shopping application is to encourage and influence more people to buy more and more hardware products using this app. This application is user friendly and easy to use.

Mobile application contains the following features –
1. Splash Screen
2. Login Screen
3. Create Profile Screen
4. Home Screen
5. Cart Screen
6. Manage Order Screen
7. Order History Screen
8. Settings Screen
9. Favorites Screen

2.2 Assumptions and Dependencies

1. Testing of the android app would be done on Samsung, Redmi, Realme.
2. Android OS supported version 5x & up.
3. The app would be developed for both phone and tablets.
4. The app will support both portrait mode.
5. Designs for both phones and tablets would be same.
6. Android phones and tablets supported resolutions - hdpi, xhdpi, xxhdpi, xxxhdpi.

2.3 Exclusion

The designs will be created by the UX team.

3 Functional Requirements

3.1 Splash Screen

- Requirement ID:
- Reference: Moqups design.
- Requirement description:
  1. This screen will always be visible on the app launch from the terminated state.
  2. For the first time login, when the user will tap on the app icon to launch the application for the first time, this screen will be displayed with a static image, logo and the version number of the app for the default amount of time as per the OS, then the user will be redirected to the Login screen.

3.In case of auto login, when the user launches the app, this screen will be displayed with a static image, logo, the app version number and user will be redirected to the Home screen. If profile is created.

- Use-case id (as applicable): NA

- Prerequisites: The app must be installed over the device and launched from the terminated state.

- Reason / Justification for the requirement: The screen should be launched for the first time to highlight the branding of product and for the launch activities.

- Feasibility of requirements: The requirement is feasible.

- Requirements validation: NA

- Business rules and Exceptions:
    1. Logo and version number of the app should be displayed for a few seconds.
    2. The user should be redirected to the Login/Home screen of the app after the splash screen is visible for the default amount of time as per the OS.

- Data required: NA

- Output/reports: The app should be launch with the logo and version number displayed.

- Interface requirements:
    1. Hardware: Android phone / Tab will be required.
    2. Software: Android 6.x and up.

- Design / operational constraints: Moqups designn.
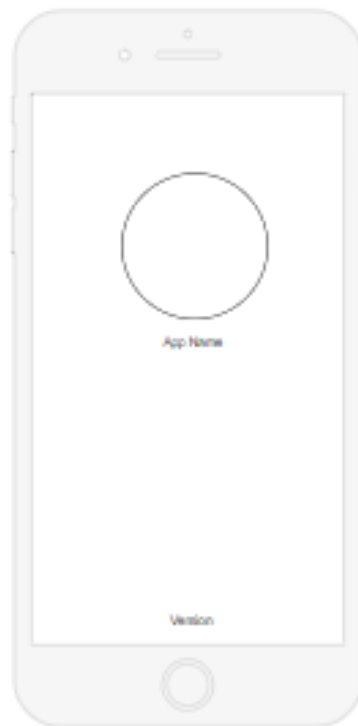
- Risk: NA

- Dependencies: App should be installed on the device.

- Non-Functional Requirement:

  1. The launch time for the screen should be as per the OS standards.

3.2 Login Screen

- Requirement ID :

- Reference: Moqups designs.

- Requirement description:

  1. The app will have the mechanism of Google / Phone login The screen will have 2 options
     1. Login with Phone
     2. Login with Google
  2. Phone login:
     1. First login - A user can login into the system with Phone number. After entering the phone number, user will get the otp number on their phone. In case of failure, message will be shown to the user. In case of success, use will be redirected to create profile screen.
     2. Auto login - The app will check for the details saved for a logged in user and then user will be redirected to the Home screen when profile is already created.
  3. Google login:
     1. First login - A user can login into the system with Google credentials. In case of failure, message will be shown to the user. In case of success, the details will be passed to the server. Upon failure from server, message will be shown to the user. Upon success from server, the user will be taken to the Home screen.
     2. Auto login - The app will check for the details saved for a logged in user and then perform the same flow as in first time login but without taking the user input.

- Use-case id (as applicable): NA

- Prerequisites: The user should be on the Login screen and have Phone / Google accounts.

- Reason / Justification for the requirement: The login feature will allow the user access to subscription related features.

- Feasibility of requirements: The requirement is feasible.

- Requirements validation: NA

- Business rules and Exceptions:

  1. Multiple login - A user can login from multiple devices at the same time.

2. The user session will persist between app launches - If the user will login once into the app, then the session will persist till user explicitly logs out.
3. This screen will be visible on first time launch and when a user will logout from the app.
4. There will be no offline login.
5. There will be appropriate messages shown in case of failures.
6. In case of Android, the user has an option to clear all data for an app, in such scenario stored credentials would be lost and hence user will again have to do a manual login.

● Data required: Valid Phone / Google user credentials.

● Output/reports: The user will be redirected to the Home screen of the application.

● Interface requirements:

1. Hardware: Android phone / Tab will be required.
2. Software:, Android 6.x and up.

● Design / operational constraints: Moqups design.
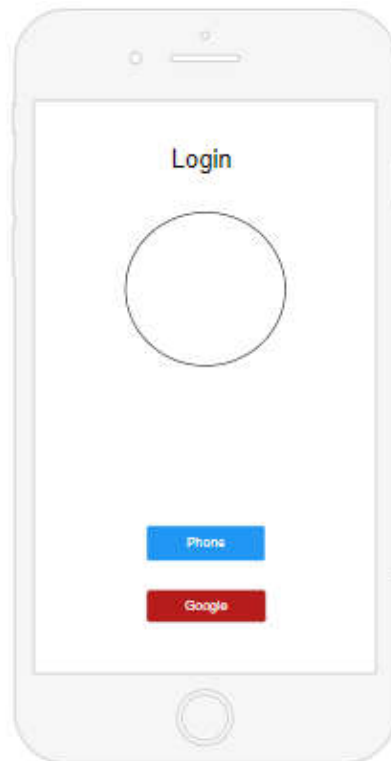
● Risk: NA

● Dependencies: App should be installed on the device.

● Non-Functional Requirement:

1. The launch time for the screen should be as per the OS standards.

3.2   Create Profile

- Requirement ID :

- Reference: Moqups designs.

- Requirement description:

  1. When a new user login into the app, first time user must have to complete their profile details. Otherwise the user will not go to our home screen.
  2. The user must enter their name, address, email / phone, image for completing profile.
  3. If user is already member of our app then it will automatically move into the home screen, in this condition uses does not need to create profile.

- Use-case id (as applicable): NA

- Prerequisites: The user must enter their name, address, email / phone, image.

- Reason / Justification for the requirement: The create profile feature will allow the user to buy products from this app, without facing any problem in delivery.

- Feasibility of requirements: The requirement is feasible.

- Requirements validation: NA

- Business rules and Exceptions: NA

- Data required: Valid name, email, phone, address, image.

- Output/reports: The user will be redirected to the Home screen of the application.

- Interface requirements:

  1. Hardware: Android phone / Tab will be required.
  2 .Software:, Android 6.x and up.

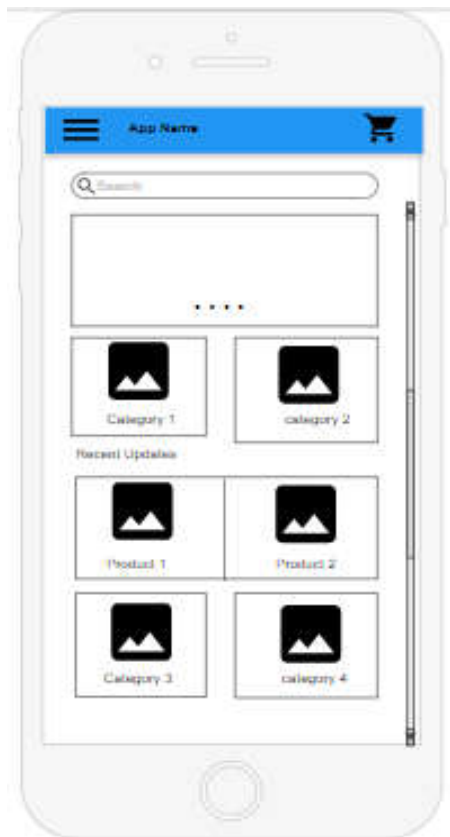- Design / operational constraints: Moqups design.
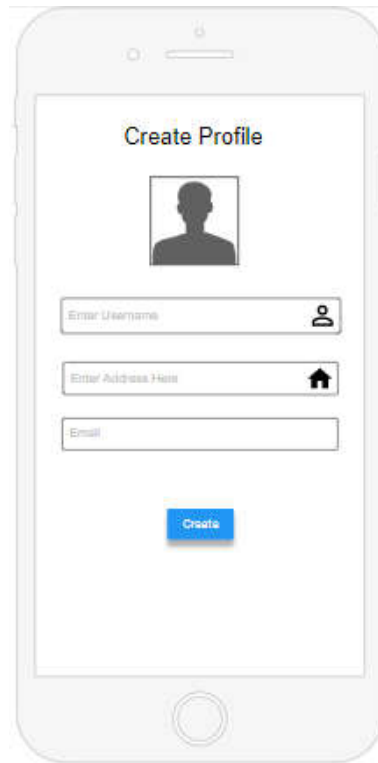
- Risk: NA

- Dependencies: App should be installed on the device.

- Non-Functional Requirement:

  1. The launch time for the screen should be as per the OS standards.

3.4   Home Screen

- Requirement ID :

- Reference: Moqups designs.

- Requirement description:

  1. Top of the screen user will see menu option in which user can see Home, Manage Order, Shop by Category, Order History, Favorites, Settings, Cart & Logout, app name and cart, by clicking on cart icon user will move to cart screen where user can view all products that user want to buy.

  2. After that user can view a Search Bar inside that user can search products.

  3. After Search Bar user can view discount offers in View Flipper, which is automatically changes

  4 By clicking on any category user will move on next products screen.

- Use-case id (as applicable): NA

- Prerequisites: User have successfully created their profile.

- Reason / Justification for the requirement: The home screen feature will allow the user to find and buy products easily from this app,

- Feasibility of requirements: The requirement is feasible.

- Requirements validation: NA

- Business rules and Exceptions:

- Output/reports: user can navigate on different screens.

- Interface requirements:
   1. Hardware: Android phone / Tab will be required.
   2. Software:, Android 6.x and up.

- Design / operational constraints: Moqups design.

- Risk: NA

- Dependencies: App should be installed on the device.

- Non-Functional Requirement:
   1. The launch time for the screen should be as per the OS standards.

3.5   Manage Order Screen

- Requirement ID :
- Reference: Moqups designs.
- Requirement description:

  1. This screen will be visible when user will click on manage order option in navigation order on home screen.

  2. In this user can see their current order and their Progress.

  3. In this Screen user can also see information of current order delivery status.

  4. User can also able to cancel their current order.

- Use-case id (as applicable): NA
- Prerequisites: User have successfully created their profile.
- Reason / Justification for the requirement: This feature will allow the user to cancel there current order and check delivery status easily from this app,
- Feasibility of requirements: The requirement is feasible.
- Requirements validation: NA
- Business rules and Exceptions:
- Output/reports: The user will be redirected to the Home screen of the application.
- Interface requirements:
  1. Hardware: Android phone / Tab will be required.
  2. Software:, Android 6.x and up.
- Design / operational constraints: Moqups design
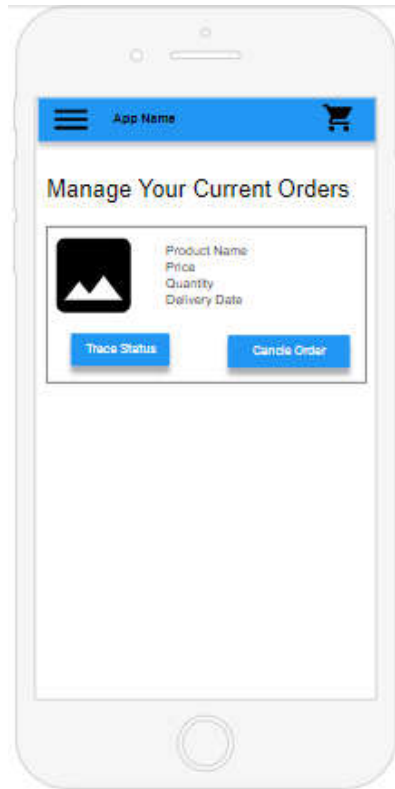
- Risk: NA

- Dependencies: App should be installed on the device.

- Non-Functional Requirement:

    1. The launch time for the screen should be as per the OS standards.

3.6   Cart Screen

- Requirement ID :

- Reference: Moqups designs.

- Requirement description:

    1. The products that user want to buy instantly can add into the cart.

    2. User can buy all products of cart at a time without any difficulties.

    3. User can also remove products from the cart.

    4. User will get a order button to place the order.

- Use-case id (as applicable): NA

- Prerequisites: NA.

- Reason / Justification for the requirement: User can able to purchase all products in a single bill without generating different bills, of different shops .

- Feasibility of requirements: The requirement is feasible.

- Requirements validation: NA

- Business rules and Exceptions :

- Output/reports: The user will be placed and visible into the manage order screen .

- Interface requirements:

   1. Hardware: Android phone / Tab will be required.
   2. Software:, Android 6.x and up.

- Design / operational constraints: Moqups design

- Risk: NA

- Dependencies: App should be installed on the device.

- Non-Functional Requirement:

   1. The launch time for the screen should be as per the OS standards.

3.7   Order History Screen

- Requirement ID :

- Reference: Moqups designs.

- Requirement description:

1. In this screen user can view their previous order.

2. In this screen user can also view information of all purchases and user can see all order_id, delivery address, delivery date, amount.

3. In this user can view order information by clicking on the popup menu and then user will move on a new screen for viewing all product information.

- Use-case id (as applicable): NA
- Prerequisites: NA
- Reason / Justification for the requirement: This feature will allow the user to check their all order history whether the order is successful, cancelled, or returned.
- Feasibility of requirements: The requirement is feasible.
- Requirements validation: NA
- Business rules and Exceptions:
- Output/reports : NA
- Interface requirements:
    1. Hardware: Android phone / Tab will be required.
    2. Software:, Android 6.x and up.
- Design / operational constraints: Moqups design

- Risk: NA

- Dependencies: App should be installed on the device.

- Non-Functional Requirement:

    1. The launch time for the screen should be as per the OS standards.

3.8   Favorites Screen

- Requirement ID :

- Reference: Moqups designs.

- Requirement description:

    1. User can view all favorites products with image, price, discount that he/she wants to buy.

    2. Tap on a particular product user will be redirected to a product information screen where user can see the complete product details.

    3. User can also remove products from favorites list.

- Use-case id (as applicable): NA

- Prerequisites: NA

- Reason / Justification for the requirement: This feature will allow the user to check their favourites products.

- Feasibility of requirements: The requirement is feasible.

- Requirements validation: NA

- Business rules and Exceptions:

- Output/reports: NA

- Interface requirements:

    1. Hardware: Android phone / Tab will be required.
    2. Software:, Android 6.x and up.

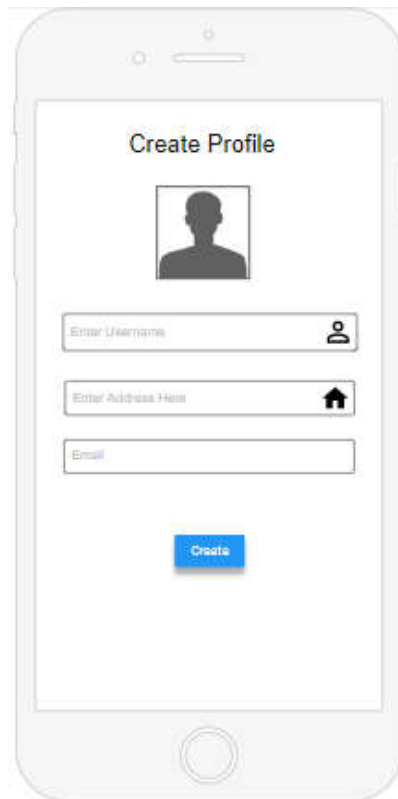- Design / operational constraints: Moqups design

- Risk: NA

- Dependencies: App should be installed on the device.

- Non-Functional Requirement:

  1. The launch time for the screen should be as per the OS standards.

3.9   Setting Screen

- Requirement ID :

- Reference: Moqups designs.

- Requirement description:

  1. This screen will be visible when user will click on setting

  2. In this screen user will update or change their profile details.

- Use-case id (as applicable): NA

- Prerequisites: The users have to enter their name, address, email / phone.

- Reason / Justification for the requirement: The settings feature will allow the user to update / change their profile.

- Feasibility of requirements: The requirement is feasible.

- Requirements validation: NA

- Business rules and Exceptions:

- Output/reports: The user will be redirected to the Home screen of the application.

- Interface requirements:

    1.   Hardware: Android phone / Tab will be required.
    2.   Software:, Android 6.x and up.

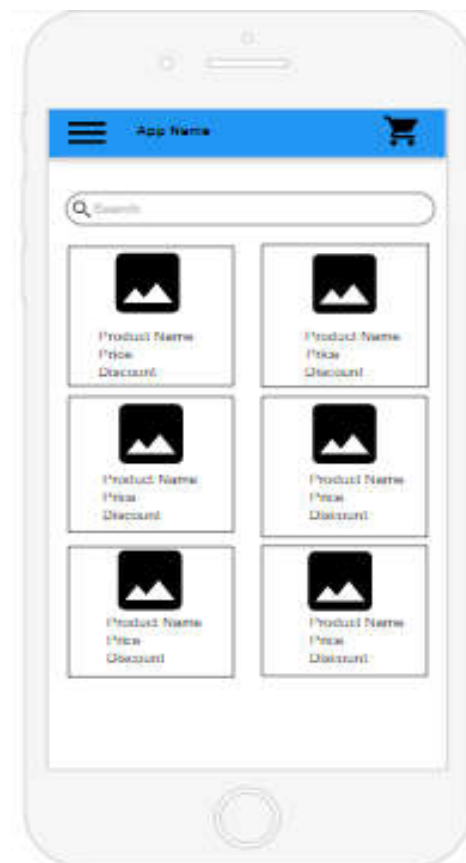- Design / operational constraints: Moqups design

- Risk: NA

- Dependencies: App should be installed on the device.

- Non-Functional Requirement:

    1. The launch time for the screen should be as per the OS standards.

3.10   Product Screen

- Requirement ID :

- Reference: Moqups designs.

- Requirement description:

    1. Here user can view all products with name, price, image and discount of that particular category and a search bar, by using it user can search products of typing product name.

2. By clicking on any product user will move on next Product Information screen.

- Use-case id (as applicable): NA

- Prerequisites: NA

- Reason / Justification for the requirement:

- Feasibility of requirements: The requirement is feasible.

- Requirements validation: NA

- Business rules and Exceptions:

- Output/reports: The user will be redirected to the Product Information screen of the application.

- Interface requirements:

    1. Hardware: Android phone / Tab will be required.
    2. Software:, Android 6.x and up.

- Design / operational constraints: Moqups design

- Risk: NA

- Dependencies: App should be installed on the device.

- Non-Functional Requirement:
    1. The launch time for the screen should be as per the OS standards.

3.11   Product Information Screen

- Requirement ID :
- Reference: Moqups designs.
- Requirement description:

    1. In this screen user can view the product details that contains product image, name, price, discount, quantity, brand, availability, product ratings and two buttons for Buy and Add to cart. By clicking on add to cart, cart screen will appear. And on clicking on Buy, buy product screen will appear. After that similar product will appear at below of this two buttons in horizontal scroll view.

- Use case id (as applicable): NA

- Prerequisites : NA
- Reason / Justification for the requirement: This feature will allow the user to add product into cart and buy.
- Feasibility of requirements: The requirement is feasible.
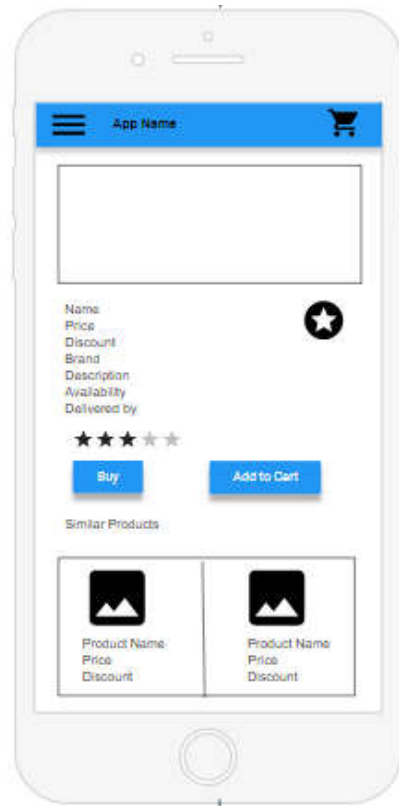- Requirements validation: NA
- Business rules and Exceptions:
- Output/reports: The user will be redirected to the Cart screen of the application.
- Interface requirements:
    1. Hardware: Android phone / Tab will be required.
    2. Software:, Android 6.x and up.
- Design / operational constraints: Moqups design.

- Risk: NA

- Dependencies: App should be installed on the device.

- Non-Functional Requirement:

  1. The launch time for the screen should be as per the OS standards.

4 External Interface Requirements

4.1   User Interface

All designs and screens are created by our team members.

4.2   Hardware Interface

Android devices (Phone / Tablets).

4.3   Software Interface

Android SDK for the development of the mobile app.

4.4   Communication Interface

The application will work on wi fi and cellular networks. Along with this, the system will interact with the server via web services to get and send the details to the app.

5   Non Functional Requirements

5.1   Performance Requirement

The response time for the web service should be as per the standards.

5.2   Safety Requirement

HTTPS will be used to transfer data to/from the Firebase server. It provides data security.

5.3   Usability Requirement

1. The screens should be designed in a way that it should be of ease for non-technical users. The design should be intuitive and user-friendly for all users.
2. The user should be able to perform operations without having to navigate through multiple pages/links – No operation should require more than 2 to 3 clicks.
3. The informative screens having details for mandatory/optional fields.
4. Proper coding standards and comments shall be followed to ensure easy code maintenance.

5.4   Scalability & Maintainability Requirement

The application should be scalable enough so that the app should be upgraded to a higher framework version.

5.5   Packaging Requirement

Builds planned for every sprint will be shared as per schedule having different feature sets.

5.6   Compatibility Requirement

1. Android OS versions – the app would support – 6.x and up.
2. Testing for the android app would be the on Redmi Y1, Realme U1, Samsung M31.
3. Android phones and tablets supported resolutions.

6 Acceptance Criteria

1. The mobile app should cover all the requirements sprint wise mentioned in this document.
2. The deliverables should be released as per the sprint schedule.

7 Post Implementation

Customer Reviews, Rating, Voice search, growth chart.

8 Annexure(s)

1. Moqups