

## **Step 1: Identify User Types**

### **User Types – Recipe Book**

#### **1. Home Cook (Primary User)**

Description: Users who cook at home and use the app to discover and save and manage recipes.

Main Needs: Browse recipes and view cooking instructions and save favorite recipes and add personal recipes.

#### **2. Registered User / Recipe Creator (Primary User)**

Description: Users who create an account and actively contribute by adding their own recipes.

Main Needs: Add recipes and edit or delete their recipes and manage favorites and personalize content.

#### **3. Administrator (Secondary User)**

Description: System administrators who manage content and users.

Main Needs: Manage users and review or remove inappropriate recipes and maintain system quality.

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## **Step 2: Write User Stories**

### **❖ Authentication and User management**

#### **User Story 1: User Registration**

As a new user

I want to create an account using my email and password

So that i can save recipes and personalize my experience

Priority: Must-Have

Estimated Points: To be estimated in activity 5

## **User Story 2: User Login**

As a registered user

I want to log in to my account

So that i can access my saved recipes and personal data

Priority: Must-Have

Estimated Points: To be estimated in activity 5

## **User Story 3: Logout**

As a logged in user

I want to log out of the application

So that my account remains secure

Priority: Must-Have

Estimated Points: To be estimated in activity 5

## **User Story 4: Password Reset**

As a registered user

I want to reset my password

So that i can regain access if i forget it

Priority: Should-Have

Estimated Points: to be estimated in activity 5

## **❖ Core Recipe Features**

### **User Story 5: Browse Recipes**

As a home cook

I want to browse a list of available recipes

So that i can discover new meals

Priority: Must-Have

Estimated Points: To be estimated in activity 5

### **User Story 6: View Recipe Details**

As a user

I want to view full recipe details including ingredients and steps

So that i can cook the meal correctly

Priority: Must-Have

Estimated Points: To be estimated in activity 5

### **User Story 7: Search Recipes**

As a user

I want to search for recipes by name or ingredients

So that i can quickly find what i am looking for

Priority: Must-Have

Estimated Points: To be estimated in activity 5

### **User Story 8: Save Favorite Recipes**

As a registered user

I want to save recipes to my favorites list

So that i can access them later easily

Priority: Must-Have

Estimated Points: To be estimated in activity 5

### **User Story 9: View Favorite Recipes**

As a registered user

I want to view my saved favorite recipes

So that i do not need to search for them again

Priority: Must-Have

Estimated Points: To be estimated in activity 5

## ❖ Recipe Creation and Management

### User Story 10: Add New Recipe

As a registered user

I want to add a new recipe with ingredients and instructions

So that i can share my cooking ideas

Priority: Must-Have

Estimated Points: To be estimated in activity 5

### User Story 11: Edit My Recipe

As a recipe creator

I want to edit my own recipes

So that i can correct or improve them

Priority: Should-Have

Estimated Points: To be estimated in activity 5

### User Story 12: Delete My Recipe

As a recipe creator

I want to delete my own recipes

So that i can remove unwanted content

Priority: Should-Have

Estimated Points: To be estimated in activity 5

## ❖ Enhancements and Usability

### User Story 13: Recipe Categories

As a user

I want to browse recipes by category

So that i can find suitable meals faster

Priority: Should-Have

Estimated Points: To be estimated in activity 5

### User Story 14: Cooking Time Display

As a user

I want to see estimated cooking time for each recipe

So that i can choose meals based on my available time

Priority: Should-Have

Estimated Points: To be estimated in activity 5

### User Story 15: Rate Recipes

As a user

I want to rate recipes

So that i can share feedback with others

Priority: Nice-to-Have

Estimated Points: To be estimated in activity 5

### User Story 16: Leave Comments

As a user

I want to leave comments on recipes

So that o can share tips or suggestions

Priority: Nice-to-Have

Estimated Points: To be estimated in activity 5

## ❖ Administration (Secondary User)

### User Story 17: Manage Users

As an administrator

I want to manage user accounts

So that the system remains safe and organized

Priority: Nice-to-Have

Estimated Points: To be estimated in activity 5

### User Story 18: Manage Recipes

As an administrator

I want to remove inappropriate recipes

So that the content remains high quality

Priority: Nice-to-Have

Estimated Points: To be estimated in activity 5

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## Step 3: Acceptance Criteria

### ❖ User Story 1: User Registration

As a new user

I want to create an account using my email and password

So that i can save recipes and personalize my experience

Priority: Must-Have

Estimated Points: 5

### Acceptance Criteria

1. Given i am on the registration screen

When i enter a valid email and a password with at least 8 characters

Then my account should be created successfully

And i should see a success message

2. Given i am on the registration screen
  - When i enter an invalid email format
  - Then i should see an error message
  - And the account should not be created
3. Given i am on the registration screen
  - When i enter a password with less than 8 characters
  - Then i should see an error message
  - And the form should not be submitted
4. Given the email already exists
  - When i try to register again
  - Then i should see an error saying email already registered

### **Technical Notes**

- Password must be hashed
- Email must be unique
- Input validation on frontend and backend

### **Dependencies**

- Users database table/collection
- Authentication API

### **Definition of Done**

- All acceptance criteria pass
- Unit tests written
- Registration API tested
- Product Owner approval

## ❖ User Story 2: User Login

As a registered user

I want to log in to my account

So that i can access my saved recipes

Priority: Must-Have

Estimated Points: 3

### Acceptance Criteria

1. Given i am on the login screen

When i enter valid credentials

Then i should be logged in successfully

And redirected to the home screen

2. Given i enter incorrect credentials

When i press login

Then i should see an error message

### Technical Notes

- Use JWT for authentication
- Secure token storage on android

### Dependencies

- Login API
- Registered users

### Definition of Done

- Login works correctly
- Error handling implemented
- Tests passing

## ❖ User Story 5: Browse Recipes

As a home cook

I want to browse a list of recipes

So that i can discover new meals

Priority: Must-Have

Estimated Points: 5

### Acceptance Criteria

1. Given i am logged in  
When i open the home screen  
Then i should see a list of recipes
2. Given recipes exist in the system  
When the screen loads  
Then recipe name and image should be displayed

### Technical Notes

- Fetch recipes using rest Api
- Pagination if needed

### Dependencies

- Recipes database
- Api endpoint to fetch recipes

### Definition of Done

- Recipes displayed correctly
- Api tested
- Ui reviewed

## ❖ User Story 6: View Recipe Details

As a user

I want to view recipe details

So that i can cook the meal correctly

Priority: Must-Have

Estimated Points: 5

### **Acceptance Criteria**

1. Given i select a recipe  
When i tap on it  
Then i should see ingredients and steps
  
2. Given a recipe has cooking time  
When i view details  
Then cooking time should be displayed

### **Technical Notes**

- Recipe details endpoint
- Image loading using Glide

### **Dependencies**

- Recipe data available
- Api connection

### **Definition of Done**

- All recipe data displayed
- No crashes
- Tested on Android device

## **❖ User Story 8: Save Favorite Recipes**

As a registered user

I want to save recipes to favorites

So that i can access them later

Priority: Must-Have

Estimated Points: 3

### **Acceptance Criteria**

1. Given i am viewing a recipe  
When i tap Add to Favorites  
Then the recipe should be saved

2. Given the recipe is already saved  
When i tap again  
Then it should be removed

#### **Technical Notes**

- Favorites linked to user id
- Toggle favorite state

#### **Dependencies**

- User authentication
- Favorites database table

#### **Definition of Done**

- Favorite saved correctly
- State updates in UI
- Tests completed

### **❖ User Story 10: Add New Recipe**

As a registered user

I want to add a new recipe

So that i can share my cooking ideas

Priority: Must-Have

Estimated Points: 8

#### **Acceptance Criteria**

1. Given i am logged in  
When i submit a recipe with title and ingredients and steps  
Then the recipe should be saved successfully
2. Given required fields are empty  
When i submit  
Then i should see validation errors

#### **Technical Notes**

- Validate input fields
- Associate recipe with creator id

#### **Dependencies**

- Recipe creation api

- User authentication

#### **Definition of Done**

- Recipe added successfully
  - Validation works
  - API tested
  - Product Owner approval
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### **Step 4: Prioritize Backlog**

#### **Must-Have Stories((Priority 1)**

##### **❖ Story 1: User Registration**

As a new user i want to create an account using my email and password so that i can save recipes and personalize my experience.

##### **❖ Story 2: User Login**

As a registered user i want to log in to my account so that i can access my saved recipes.

##### **Story 3: Logout**

As a logged in user i want to log out of the application so that my account remains secure

### **Core Functionality**

##### **❖ Story 5: Browse Recipes**

As a home cook i want to browse a list of recipes so that i can discover new meals

##### **❖ Story 6: View Recipe Details**

As a user i want to view recipe details so that i can cook the meal correctly.

### **Story 7: Search Recipes**

As a user i want to search for recipes by name or ingredients so that i can quickly find what i need.

### **Story 8: Save Favorite Recipes]**

As a registered user i want to save recipes to my favorites so that i can access them later.

### **Story 10: Add New Recipe**

As a registered user i want to add a new recipe so that i can share my cooking ideas.

## **Should-Have Stories(Priority 2)**

### **Story 4: Password Reset**

As a registered user i want to reset my password so that i can regain access if i forget it.

### **Story 11: Edit My Recipe**

As a recipe creator i want to edit my own recipes so that i can improve them.

### **Story 12: Delete My Recipe**

As a recipe creator i want to delete my own recipes so that i can remove unwanted content.

### **Story 13: Recipe Categories**

As a user i want to browse recipes by category so that i can find meals faster.

### **Story 14: Cooking Time Display**

As a user i want to see cooking time for each recipe so that i can choose meals based on time.

### **Story 9: View Favorite Recipes**

As a registered user i want to view my saved favorite recipes so that i do not need to search again.

### **Nice-to-Have Stories (Priority3)**

#### **Story 15: Rate Recipes**

As a user i want to rate recipes so that i can share feedback with others.

#### **Story 16: Leave Comments**

As a user i want to leave comments on recipes so that i can share tips or suggestions.

#### **Story 17: Manage Users**

As an administrator i want to manage user accounts so that the system remains secure.

#### **Story 18: Manage Recipes**

As an administrator i want to remove inappropriate recipes so that content quality is maintained.

### **Icebox (Future Considerations)**

Ideas for future enhancements:

- Meal planning calendar
- Shopping list generation
- Ai based recipe recommendations

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