

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.

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

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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