

BudgetKit Work Breakdown Structure V2

Last Updated: December 25, 2025

1. Preparation

1.1. Project Document

- 1.1.1. API Specification
- 1.1.2. Coding and Commit Guidelines
- 1.1.3. Use Case
- 1.1.4. User Story

1.2. Web Host

- 1.2.1. Hosting Plan
- 1.2.2. Domain Name
- 1.2.3. Github Auto Deployment (Main Branch)

1.3. Design

1.3.1. Application Mockup

- 1.3.1.1. User Profile
- 1.3.1.2. Analysis Dashboard
- 1.3.1.3. Transaction Dashboard
- 1.3.1.4. Main Dashboard
- 1.3.1.5. Authentication Page

1.3.2. Database Design

- 1.3.2.1. Physical Design

2. Development

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- 2.1.1.2. Register
- 2.1.1.3. Email Verification
- 2.1.1.4. Reset Password
- 2.1.1.5. Session Management
- 2.1.1.6. Security Validation

2.1.2. Main Dashboard

- 2.1.2.1. Onboarding Page

2.1.3. Transaction Dashboard

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- 2.1.3.3. Edit Transaction
- 2.1.3.4. Delete Transaction
- 2.1.3.5. Filter Transaction

2.1.4. Budgets Dashboard

- 2.1.4.1. Budget List
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2.1.5. Savings Dashboard

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2.1.6. Categories Dashboard

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2.1.7. Reports Dashboard

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2.1.8. Settings Dashboard

- 2.1.8.1. Account Setting
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2.1.9. AI Chatbot

- 2.1.9.1. Side Conversation

2.2. Backend

2.2.1. API Implementation

2.2.1.1. Authentication

- 2.2.1.1.1. User Signup
- 2.2.1.1.2. User Login
- 2.2.1.1.3. Check Username
- 2.2.1.1.4. Check Email
- 2.2.1.1.5. Verify Email
- 2.2.1.1.6. Forgot Password
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- 2.2.1.1.8. Reset Password
- 2.2.1.1.9. Change Password

2.2.1.2. User Profile

- 2.2.1.2.1. Get Profile
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- 2.2.1.2.3. Deactivate Account
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2.2.1.3. Transactions

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- 2.2.1.3.7. Income Summary
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2.2.1.4. Budgets

- 2.2.1.4.1. List Budgets

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2.2.1.7. Notifications

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- 2.2.1.7.3. Mark Read
- 2.2.1.7.4. Mark All Read
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2.2.1.8. AI Chatbot

- 2.2.1.8.1. Send Message

2.2.2. DevOps/CI-CD

2.2.2.1. Github Actions Setup

- 2.2.2.1.1. Workflow Config
- 2.2.2.1.2. Build Pipeline
- 2.2.2.1.3. Test Automation
- 2.2.2.1.4. Deployment Pipeline

2.2.2.2. Environment Config

- 2.2.2.2.1. Dev Enviroment
- 2.2.2.2.2. Staging Environment
- 2.2.2.2.3. Production Environment
- 2.2.2.2.4. Environment Variables

3. Testing

3.1. Test Matrix

3.1.1. Functional Testing

3.1.1.1. iBudget Features (Frontend)

3.1.2. UI Testing

- 3.1.2.1. Responsive Design
- 3.1.2.2. Consistent Page Design

3.2. Frontend Testing (Automated)

- 3.2.1. Unit Tests (Jasmine/Karma)
- 3.2.2. Component Tests
- 3.2.3. Service and Integration Tests

3.3. Github Actions Workflows

- 3.3.1. CI Workflow Setup
- 3.3.2. Test Automation Pipeline
- 3.3.3. Coverage Report Generation

4. Deployment

4.1. Integration of Github Repository to Web Host

- 4.1.1. Webhook Setup

4.2. Database Setup

- 4.2.1. Import Database

4.3. Host Web App to Internet

- 4.3.1. User Review