

Software Engineering

Project: Rise Together

Sustainable Development Goals: No Poverty

Team Members:

Kannan A (2023lm70107)

Aarniga M (2023lm70109)

Vangara Vajay Durga Prasad (2023lm70110)

Prathusha P (2023lm70108)

Surojit Samanta (2023lm70106)

Module-wise Task Allocation for "Rise Together"

Kannan A (2023lm70107)

Modules Handled:

- Job Matching Engine (Core Logic & APIs)
- Integration of Job DB and Scheme DB
- Deployment Diagram Creation
- SRS & Diagrams Compilation
- Content writing for scheme descriptions
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Aarniga M (2023lm70109)

Modules Handled:

- Frontend Screens (Login, Dashboard, Job Listings, Scheme Page)
- Multilingual UI (Tamil, English)
- Mobile Responsiveness
- Backend Authentication System
- Testing Strategy & Manual Test Cases
- GitHub Project Setup & Repo Maintenance

Vangara Vajay Durga Prasad (2023lm70110)

Modules Handled:

- Stakeholder Survey Creation & Analysis

Prathusha P (2023lm70108)

Modules Handled:

- Data collection for Welfare Schemes

Surojit Samanta (2023lm70106)

Modules Handled:

- Component and Class Diagram

Stakeholder Survey

Stakeholders:

- Daily-wage Worker / Gig Labourers
- NGO/Social Worker
- Government Welfare Officer

Stakeholder 1: Daily-Wage Worker

- Name: Ramesh Kumar
- Age: 32
- Location: Coimbatore
- Occupation: Painter (daily wages)

Q1. Do you find it easy to get jobs every day?

No, I mostly depend on word of mouth. Sometimes I don't get work for 3-4 days.

Q2. Are you aware of any government schemes that can help you?

I have heard of some, but I don't know how to apply or if I'm eligible.

Q3. Do you use a smartphone? If yes, what do you use it for?

Yes, mainly for WhatsApp and YouTube.

Q4. Would you use an app that helps find jobs or tell you about schemes?

Yes, if it's easy.

Stakeholder 2: NGO Worker

- Name: Meena Joseph
- Org: Uplift India Foundation

Q1. What are the challenges people face in accessing benefits?

Language, lack of documents, fear of government process, and lack of awareness.

Q2. Would a central platform with verified schemes and job postings help?

Definitely. Even we could use it to register people or update them.

2. Product Requirements Document (SRS)

Introduction:

"Rise Together" is a mobile-first application designed to support economically weaker individuals by connecting them to government welfare schemes, short-term job opportunities, and essential financial literacy.

Functional Requirements:

1. User Registration and Login
2. Job Matching Engine based on location, skills
3. Welfare Scheme Recommendation Engine
4. Financial Literacy Videos/Articles
5. Regional Language Support
6. Notifications and Alerts

Non-Functional Requirements:

- Mobile responsiveness
- Multilingual support (Tamil, Hindi, English)
- Offline access for scheme browsing
- Secure data storage
- Easy-to-use interface

3. Software Design Diagrams

Use Case Diagram:

Actors: Worker, NGO, Admin

- Register/Login
- View Eligible Schemes
- Apply for Job
- Post Job (NGO/Admin)
- View Notifications

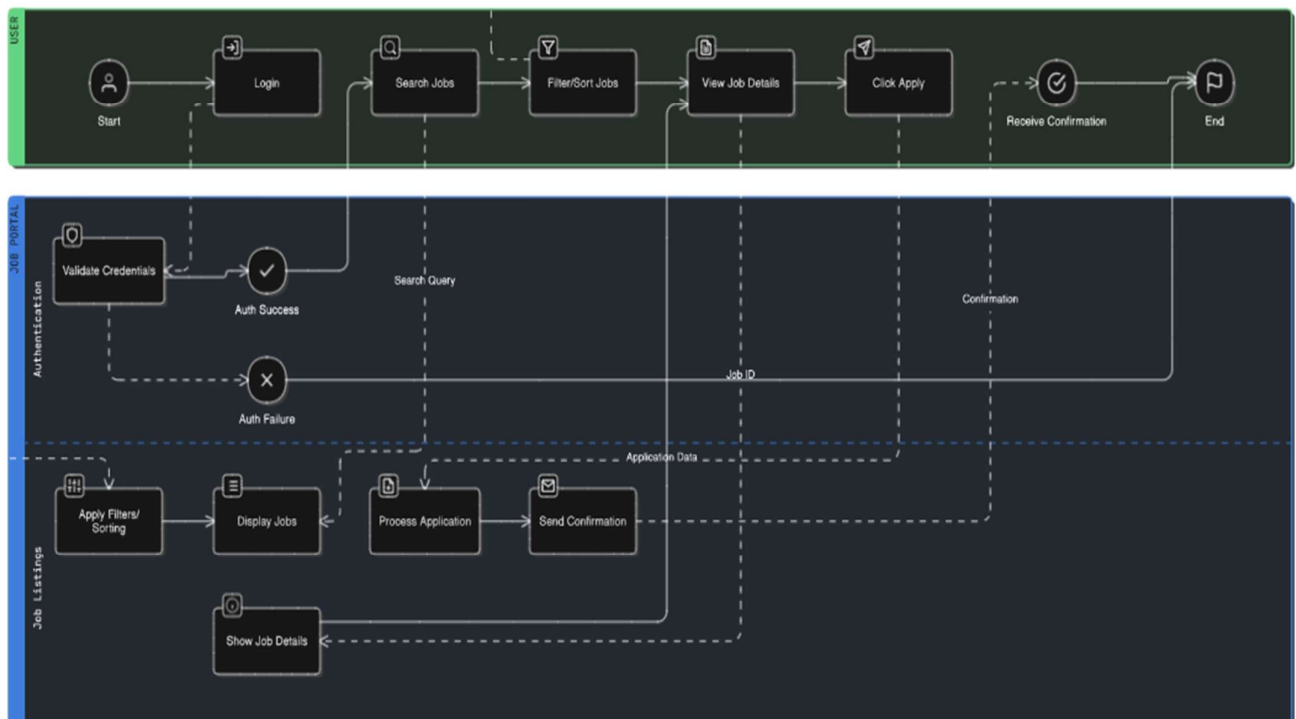
Activity Diagram (Job Application):

1. User Login
2. Search Jobs

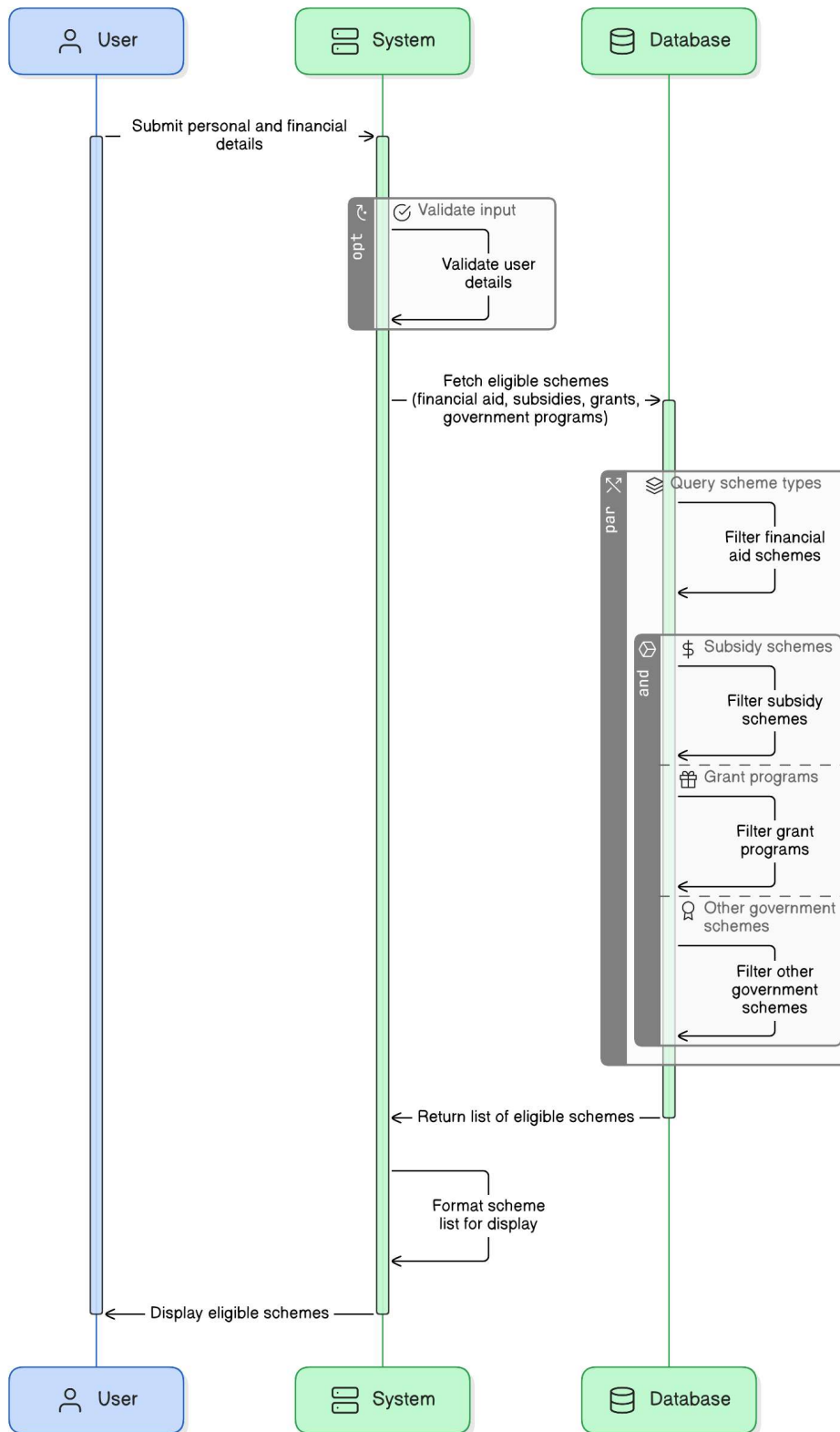
3. View Job Details
4. Click Apply
5. Confirmation Message

State Machine Diagram (User State):

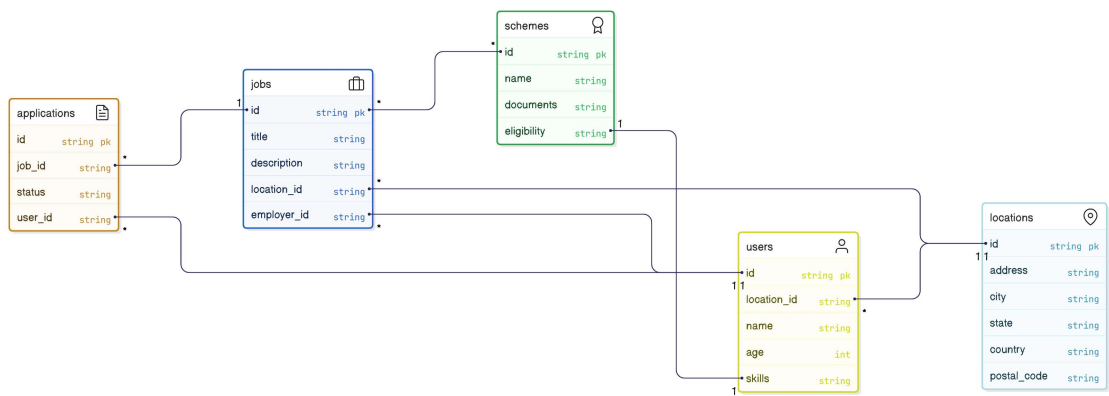
- New User → Registered → Profile Completed → Verified → Active



Sequence Diagram (Scheme Eligibility Check):



ER Diagram (Data Model):

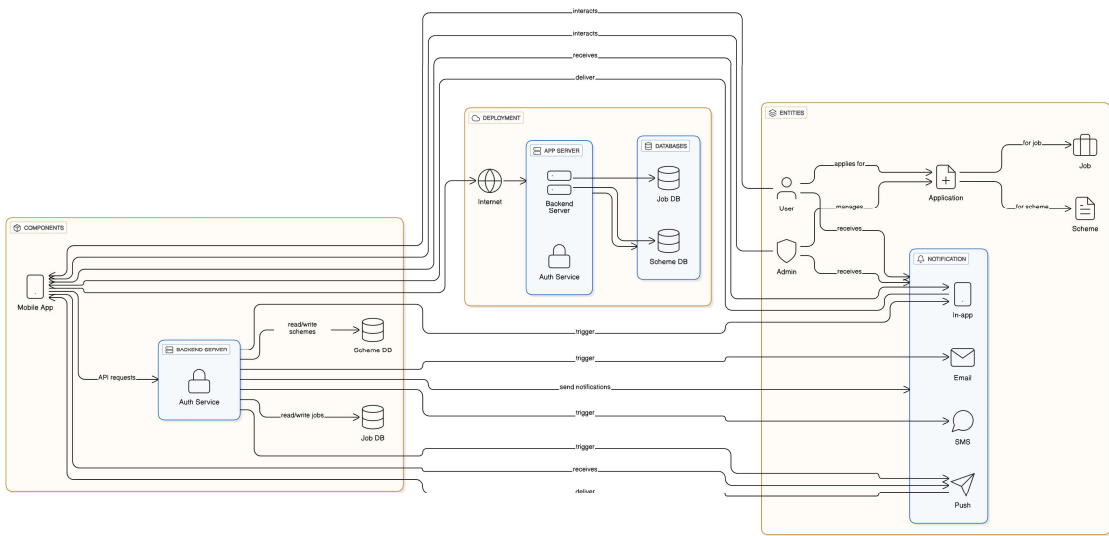


- **User**(ID, Name, Age, Location, Skills)
- **Job**(ID, Title, Description, Location, EmployerID)
- **Scheme**(ID, Name, Eligibility, Documents)
- **Application**(ID, JobID, UserID, Status)

Class Diagram:

- User, Job, Scheme, Application, Notification, Admin

Component Diagram:



Deployment Diagram:

- Mobile App → Internet → App Server → Databases

