

# Crowd Funding App



## Crowd Funding App



tony mathen

tonymathen@gmail.com

Create Project

App / Product List

Marketplace

My Projects

My Transactions

My Funding Projects

User Requests



### Luji's Chocolate : Made Directly with Farmers in West Africa

Availability: 30/12/2022

\$13240

Created By: Tony Mathen

The Next Generation of Chocolate Our goal: create the best tasting chocolate for you while generating economic opportunities in West African farming communities. We believe chocolate is the most soothing and delicious treat out there, plain and simple. That's why we're on a mission to make it better for you & all players who help get it to you!



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### Heroes of Might & Magic III The Board Game

Availability: 25/10/2023

\$2658337

Created By: Jagadeesh Marali

We grew up with tabletop games and we have since decided to make our own. Archon Studio is dedicated to creating amazing games and miniatures, challenging ourselves with more complex and detailed designs with every project. Our community is the lifeblood of Archon, receiving funds directly from our fans through crowdfsource funding. Project after project, we create models in high quality plastic and resin, making them worth painting and assembling.



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### Tiny Epic Crimes – with Red Reveal!

Availability: 22/05/2024

\$224316

Created By: Jagadeesh Marali



### The Last of Us: Escape the Dark

Availability: 02/12/2022

\$7874

Created By: Jagadeesh Marali

Tony Mathen

W162979.

Jagadeesh Marali

W1641408

Abhishek Muttah

W1649847



# Requirement Analysis

## User

- User should be able to register to the portal and login using email. Authentication should be implemented for all the users to use the application.
- User should be able to create a project or fund other projects as well as share the project with others.
- User should be able to view all the active projects, the projects he or she has supported, and all the transactions of the amounts funded.

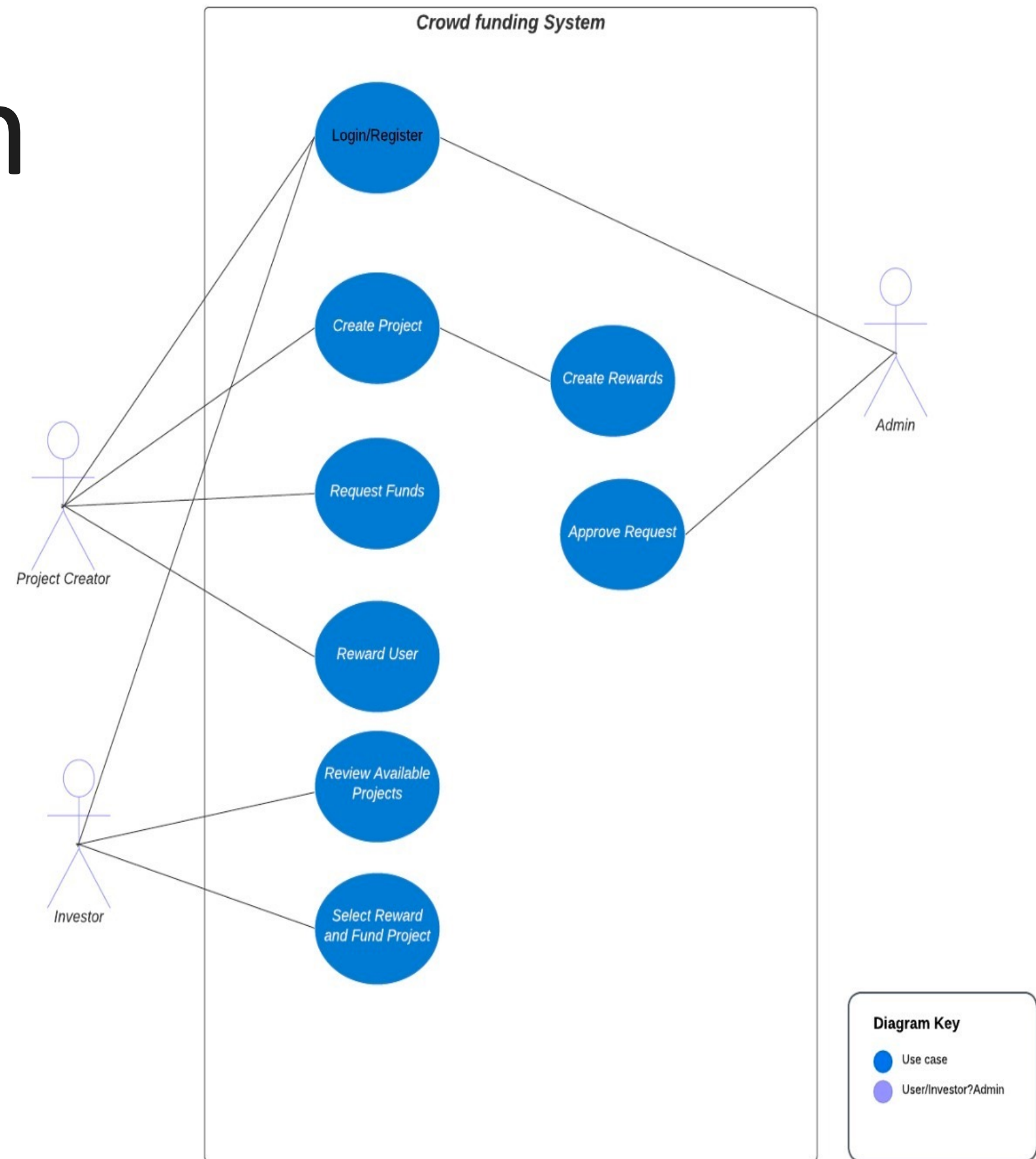
## Project

- Every project must have a title, description, funding goal, image and at least one reward.
- There should be option to share the project using the URL to social media sites.
- Once the project is funded, the user should request the admin to disburse funds collected for a project.

## Reward

- Every project can have one or more rewards, and the user should not be allowed to fund his or her own project on the platform to reach the funding goal.
- Once the funding goal is reached, the fundraiser can view all the supporters and set the reward status for logging purposes

# Usecase Diagram





# Assumptions

- A user can start his own project as well fund other projects
- A user cannot fund his own project on the platform
- The fundraiser creates a predefined set of amounts that can be donated
- A user has to raise a request to the admin to collect funds of his project
- Once the request is approved by the admin, it cannot be recovered
- The campaign amount would be disbursed to the fundraiser by approval of admin
- If the funding goal is not reached by the campaign end date, the amount collected would be refunded



# Classes

## BaseModel

The base class for all the classes. Data members are uid, createdAt and updatedAt

## Project

Represents the crowd funding project has details like the launch date, funding goal, etc.

## Reward

Used with Project class. Every Project has one or more rewards associated with them

## Transaction

Maintains all the fund transactions of the users

## User

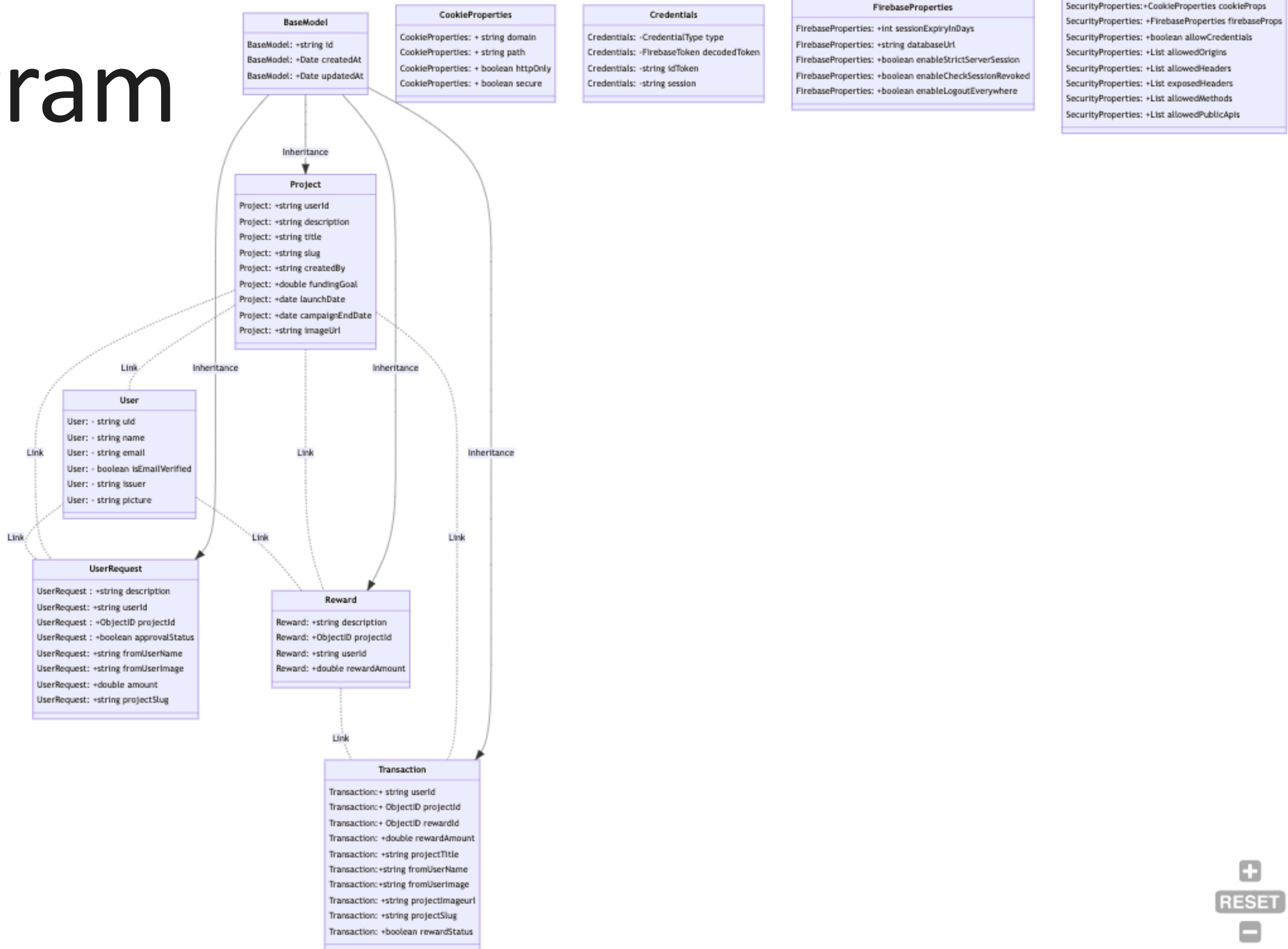
Maintains user details and is used for authentication

## UserRequest

Used with the User class to raise request to disburse funds after the campaign



# Class Diagram





# Design Decisions

## Repository Pattern

- Provides flexible architecture
- Help us implement the features of DRY(Do not Repeat Yourself)

## Denormalization

- Reduce calls to the DB and to improve



# OOPS Concepts

- Encapsulation *getters and setters, con*
- Abstraction *extending **MongoRepository** interface*
- Inheritance *BaseModel Class*
- Composition *Util Library*





# Authentication

Firestore

JWT tokens

**Firebase**

Project Overview

⚙️

Project shortcuts

👤 Authentication

🔗 Firestore Database

Product categories

Build

Release & Monitor

Analytics

Engage

📦 All products

Customize your nav!

You can now focus your console

crowd-funding-app

Go to docs

Authentication

Users

Sign-in method

Templates

Usage

Settings

🔍 Search by email address, phone number, or user UID

Add user

↻

⋮

Identifier	Providers	Created ↓	Signed In	User UID
skakuru@scu.edu		Nov 24, 2022	Nov 24, 2022	DsOd17UutmUHyVpmZtmRE29QS...
testemail@gmail.com		Nov 23, 2022	Nov 24, 2022	amtfe08TocUnbctVTlt7F96lWBh1
tonymathenshop1@gmail....		Nov 10, 2022	Nov 24, 2022	DNtpW6DDkYZu4Wgj3CNPMING0...
abhishekpraveenkumar14...		Nov 10, 2022	Nov 15, 2022	OzSD1ec9qBg2PxyCJdkALR2aHaj1
jagadeesh26597@gmail.c...		Nov 2, 2022	Nov 24, 2022	ToA3Hu4jevONRUIUHI8F1eLXav52

Rows per page:

50

1 – 5 of 5

<

>

# Authentication

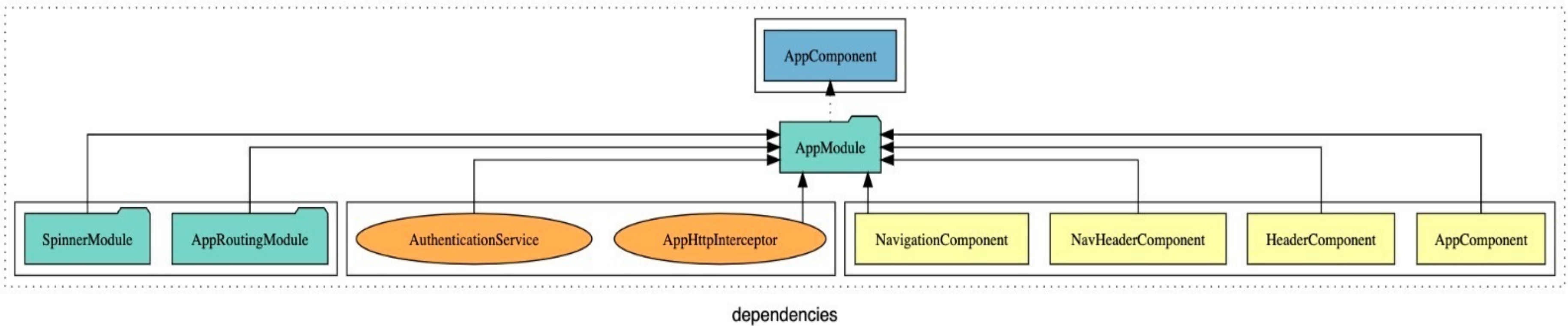
## Security Filter

*By extending the  
**OnePerRequestFilter** class*

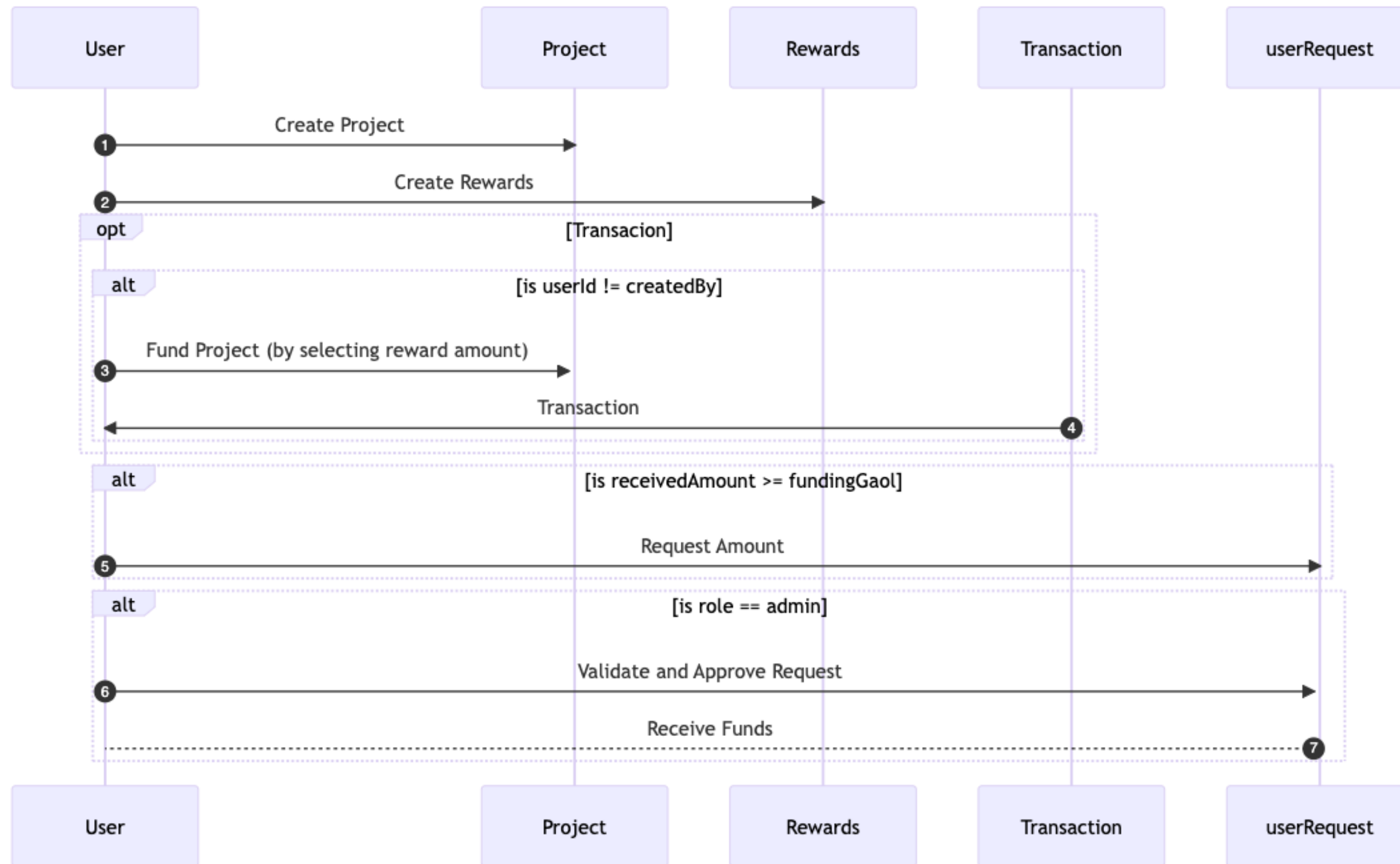
```
private void verifyToken(HttpServletRequest request) {
    String session = null;
    FirebaseToken decodedToken = null;
    Credentials.CredentialType type = null;
    boolean strictServerSessionEnabled = securityProps.getFirebaseProps().isEnabledStrictServerSession();
    Cookie sessionCookie = cookieUtils.getCookie(name: "session");
    String token = securityService.getBearerToken(request);
    logger.info(token);
    try {
        if (sessionCookie != null) {
            session = sessionCookie.getValue();
            decodedToken = FirebaseAuth.getInstance().verifySessionCookie(session,
                securityProps.getFirebaseProps().isEnabledCheckSessionRevoked());
            type = Credentials.CredentialType.SESSION;
        } else if (!strictServerSessionEnabled) {
            if (token != null && !token.equalsIgnoreCase(anotherString: "undefined")) {
                decodedToken = FirebaseAuth.getInstance().verifyIdToken(token);
                type = Credentials.CredentialType.ID_TOKEN;
            }
        }
    } catch (FirebaseAuthException e) {
        e.printStackTrace();
        log.error("Firebase Exception:: ", e.getLocalizedMessage());
    }
    User user = firebaseTokenToUserDto(decodedToken);
    if (user != null) {
        UsernamePasswordAuthenticationToken authentication = new UsernamePasswordAuthenticationToken(user,
            new Credentials(type, decodedToken, token, session), authorities: null);
        authentication.setDetails(new WebAuthenticationDetailsSource().buildDetails(request));
        SecurityContextHolder.getContext().setAuthentication(authentication);
    }
}
```

# Frontend

## Architecture



# Sequence Diagram



# Screenshots



Sign up your account

Email

hello@example.com

Password

Sign me up

Already have an account? [Sign in](#)

Sign in your account

Email

Password

[Forgot Password?](#)

Sign Me In

Don't have an account? [Sign up](#)

 Login with Google



# Screenshots



## Crowd Funding App



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Hi, welcome back!



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Availability: 30/12/2022

\$13240

Created By: Tony Mathen

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\$7874

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# Screenshots



## Luji's Chocolate : Made Directly with Farmers in West Africa

**\$ 13240**

Availability: 30/12/2022

Created By: Tony Mathen

Amount Received: \$ 26

The Next Generation of Chocolate Our goal: create the best tasting chocolate for you while generating economic opportunities in West African farming communities. We believe chocolate is the most soothing and delicious treat out there, plain and simple. That's why we're on a mission to make it better for you & all players who help get it to you!

### Description:

Luji's Backer-Only Tee Choose between the "Chocolate is My Love Language" Tee & "Doing Good Should Taste Good" Tee

Amount: 26

### Description:

Luji's Sampler - Early Bird 4 chocolate bars in our gift library including a tasting guide for you & we'll deliver 5 seedlings to a cocoa farmer.

Amount: 37



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# Screenshots



## Crowd Funding App



### Payment



Name:

Tony Mathen

Card Number:

5839 2907 4472 5124

Expiration :

11/28

CVV:

902

Amount :

26

Checkout

Africa

tasting chocolate for you while generating economic opportu  
delicious treat out there, plain and simple. That's why we're

y Bird 4

ur gift

tasting

deliver 5

seedlings to a cocoa farmer.

Amount: 26

Amount: 37

# Screenshots



## Crowd Funding App





**tony mathen**  
tonymathen@gmail.com

Transaction ID	Date	Project Title	Amount	Note	Reward Status
63816d5cc207583a7fd7355f	25/11/2022	Luji's Chocolate : Made Directly with Farmers in West Africa	26	N/A	false


# Screenshots



Transaction ID	Date	User	Amount	Note	Reward Status	Action
637c15342f586558ef14117e	21/11/2022	 Jagadeesh Marali	10	N/A	true	<a href="#">Reward</a>
637c1586fc9e933cffe0c154	21/11/2022	 Jagadeesh Marali	50	N/A	false	<a href="#">Reward</a>

# Screenshots - Admin

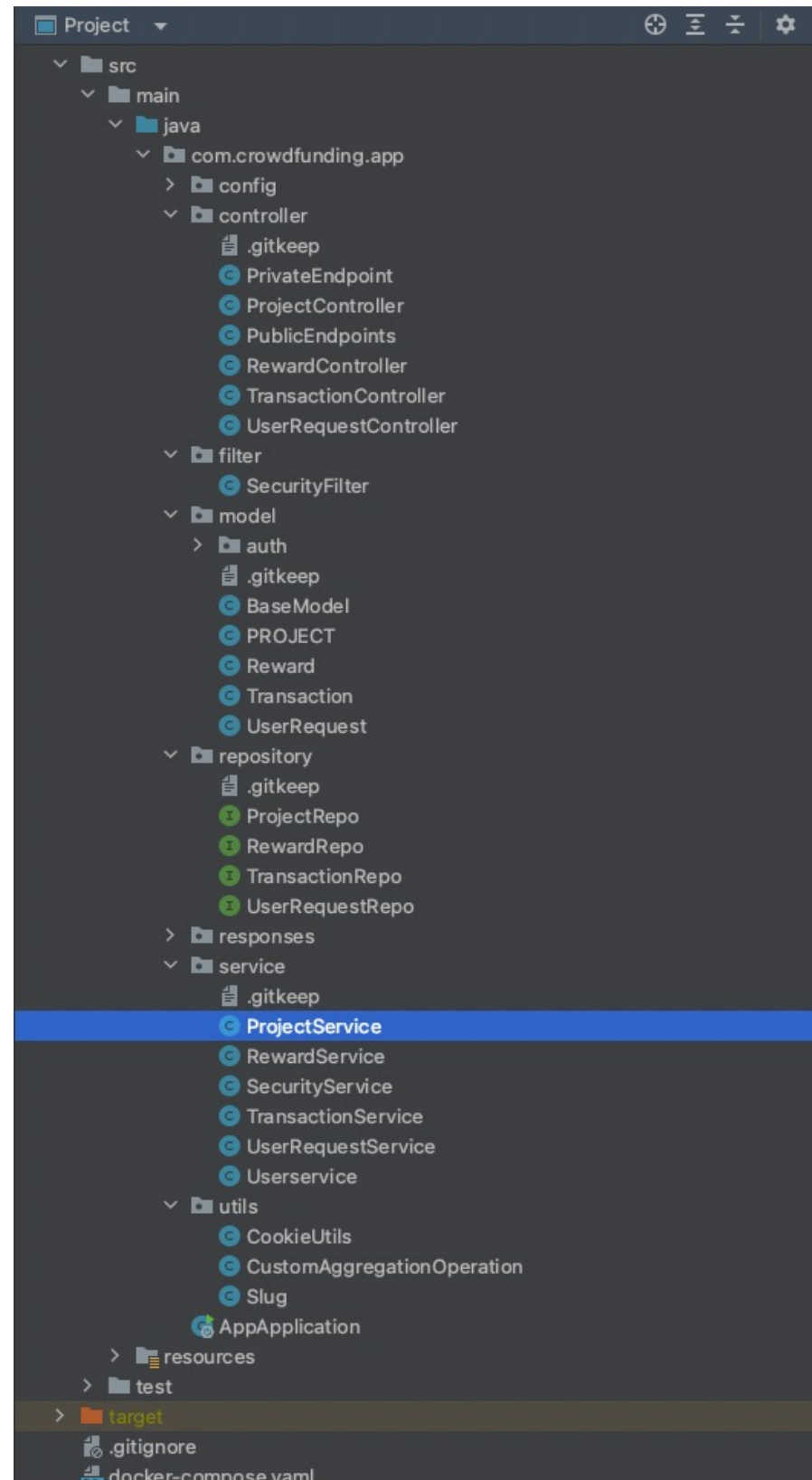


Request ID	Date	Request Description	Amount	From	Request Status	Action
637eae4774a7650c48256422	23/11/2022	Heroes of Might & Magic III The Board Game	100	 Jagadeesh Marali	true	<button>Approve</button>

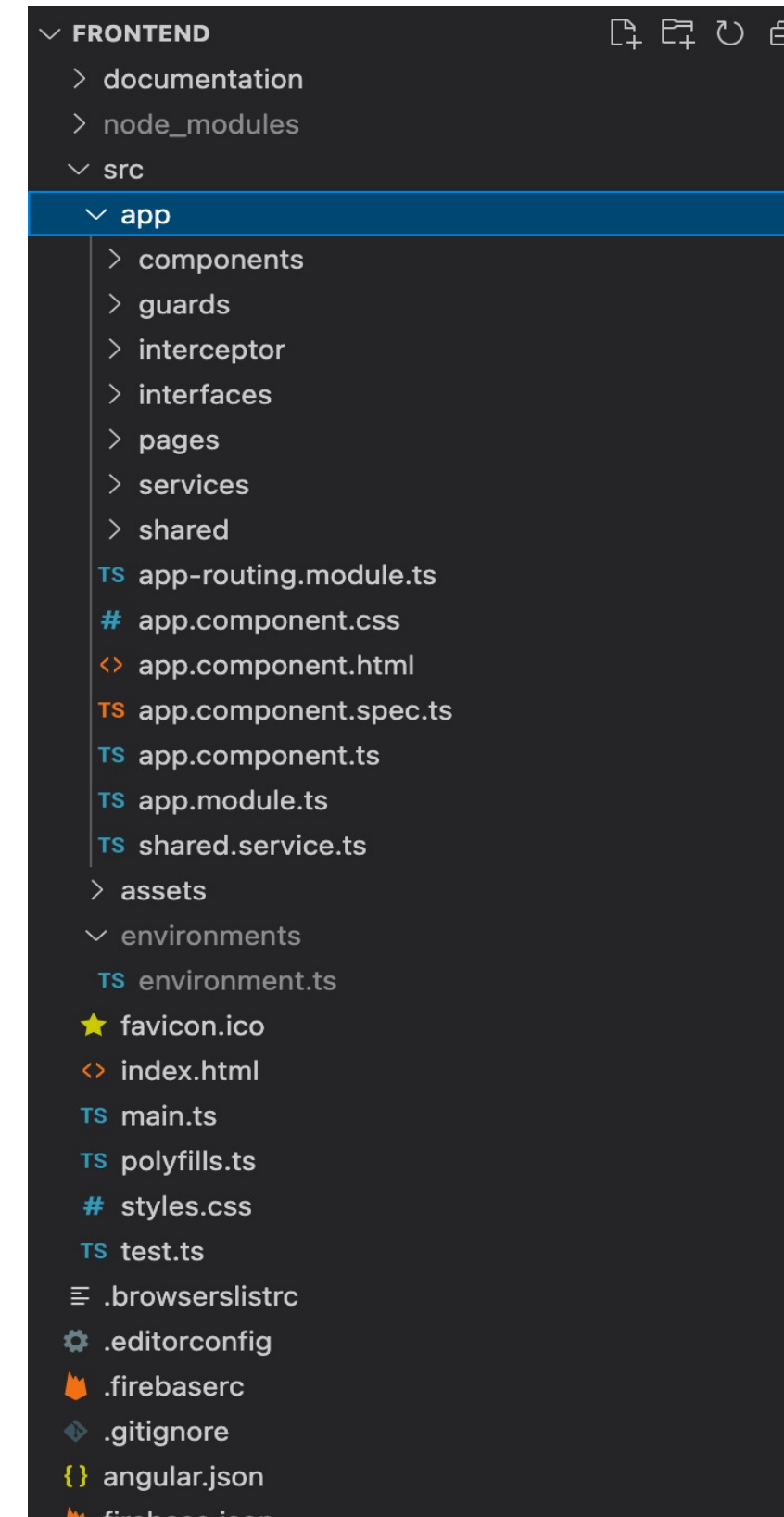




# Screenshots



*Backend*



*Frontend*





# Technology Stack

**Database:** MongoDB, Firebase

**Backend:** Java, Springboot

**Frontend:** HTML/CSS, Typescript, Angular

**Tools:** IntelliJ, VSCode, Postman, mermaid.js (for UML diagrams)

**Deployment:**

- **Database:** MongoDB Atlas
- **Backend:** Heroku
- **Frontend:** Firebase

**URL:** <https://crowd-funding-app-5b9ee.web.app/>

**Repo:** <https://github.com/jagadeeshmarali/crowd-funding-app>



Thank you !!