

Gruppe 8

# Task Management Anwendung auf Basis von Microservices und Containerisierung

Service und Cloud Computing  
Abschlusspräsentation 30.01.2024

# Gliederung

- **Service Design**
- **Genutzte Technologien**
- **Sicherheit**
- **CI/CD**
- **Demo**

# Services

## User Service

- Nutzer erstellen
- Nutzer einloggen
- Nutzer löschen
- Nutzer auflisten

## Task Service

- Aufgabe erstellen
- Aufgabe löschen
- Aufgaben auflisten
- Aufgabe einem Nutzer zuweisen
- Aufgabenstatus setzen
- Kommentar hinzufügen
- Kommentar löschen
- Kommentare auflisten

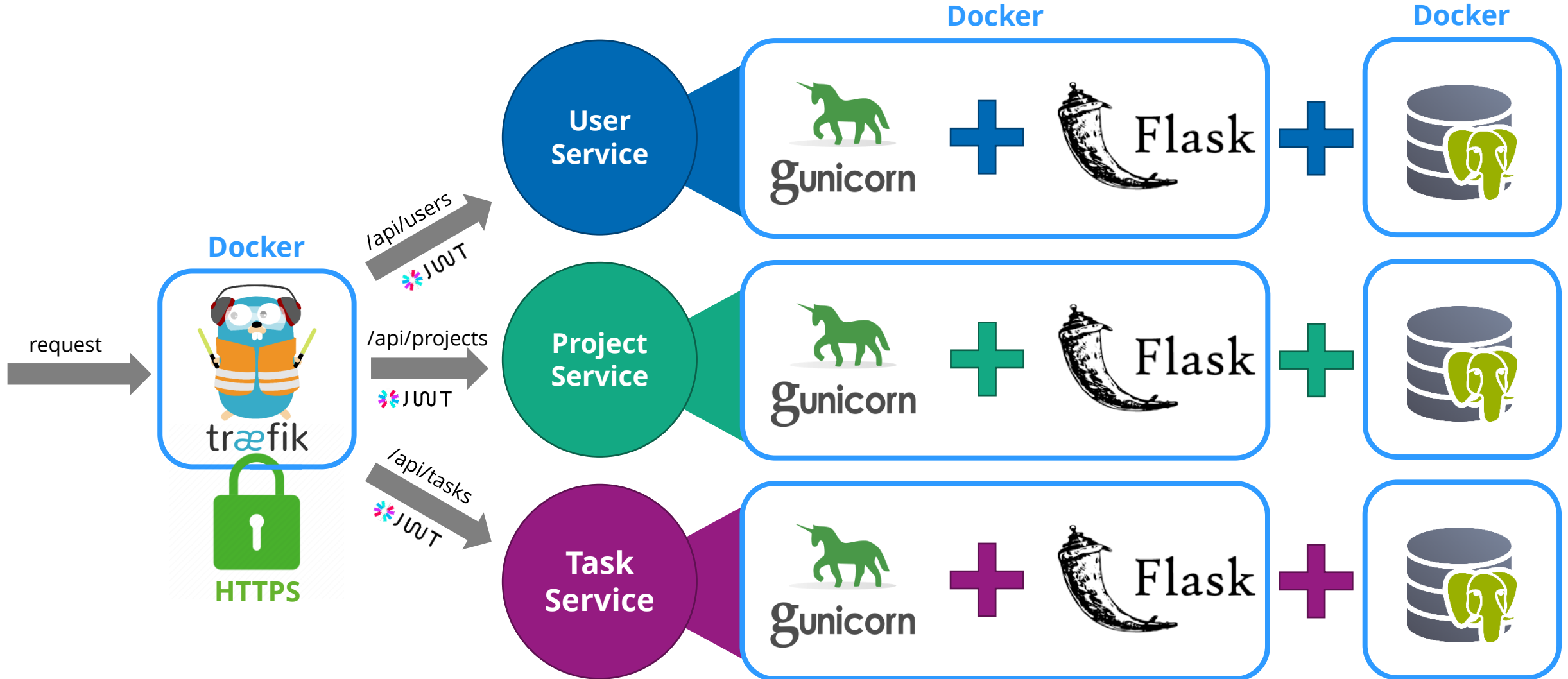
## Project Service

- Projekt erstellen
- Projekt ändern (Nutzer hinzufügen)
- Projekt löschen
- Projekte auflisten

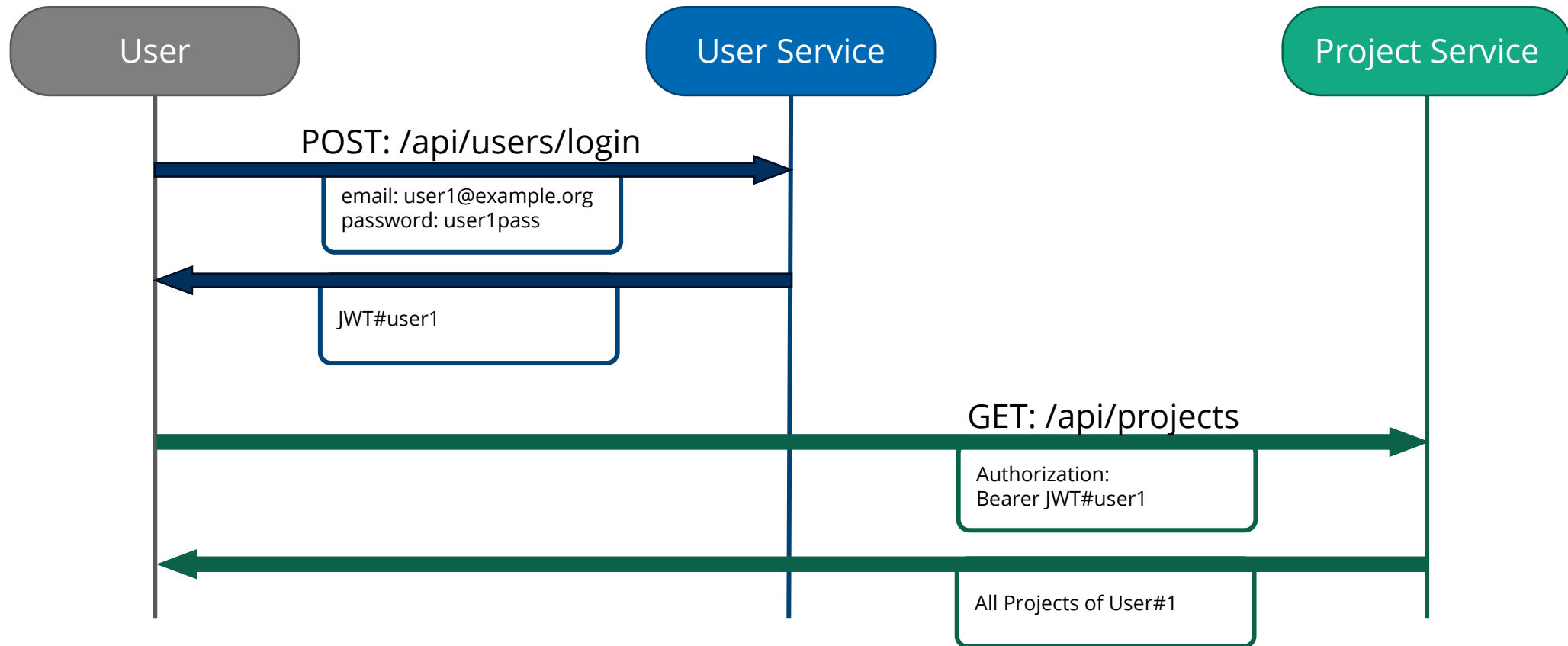
# OpenAPI Definition

<b>users</b>		^
GET	/users Retrieve all users	🔒 ▼
POST	/users Register a new user	🔒 ▼
GET	/users/{userId} Retrieve the specified user	🔒 ▼
DELETE	/users/{userId} Delete the specified user	🔒 ▼
POST	/users/login Login	🔒 ▼
<b>projects</b>		^
GET	/projects Retrieve all projects	📄 🔒 ▼
POST	/projects Create a new projects	🔒 ▼
GET	/projects/{projectId} Retrieve the specified project	🔒 ▼
PUT	/projects/{projectId} Update the specified project	🔒 ▼
DELETE	/projects/{projectId} Delete the specified project	🔒 ▼
GET	/projects/{projectId}/members Retrieve all members of the specified project	🔒 ▼
<b>tasks</b>		^
GET	/tasks Retrieve all tasks	🔒 ▼
POST	/tasks Create a new task	🔒 ▼
GET	/tasks/{taskId} Retrieve the specified task	🔒 ▼
PUT	/tasks/{taskId} Update the specified task	🔒 ▼
DELETE	/tasks/{taskId} Delete the specified task	🔒 ▼
GET	/tasks/{taskId}/assignees Retrieve all the assignees of the specified task	🔒 ▼
POST	/tasks/{taskId}/assignees Add a new assignee to the specified task	🔒 ▼
DELETE	/tasks/{taskId}/assignee/{userId} Remove the specified assignee from the specified task	🔒 ▼
PUT	/tasks/{taskId}/status Assign the status to the specified task	🔒 ▼
GET	/tasks/{taskId}/comments Retrieve all comments of the specified task	🔒 ▼
POST	/tasks/{taskId}/comments Add a new comment to the specified task	🔒 ▼
GET	/tasks/{taskId}/comments/{commentId} Retrieve the specified comment of the specified task	🔒 ▼
DELETE	/tasks/{taskId}/comments/{commentId} Deletes the specified comment of the specified task	🔒 ▼

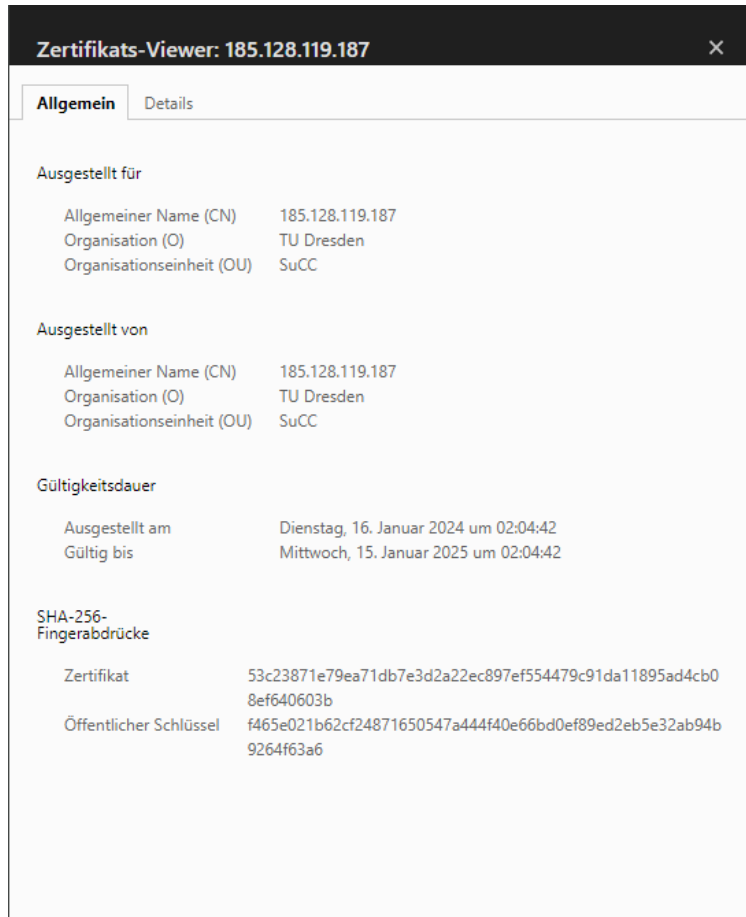
# Technologien



# Access Control

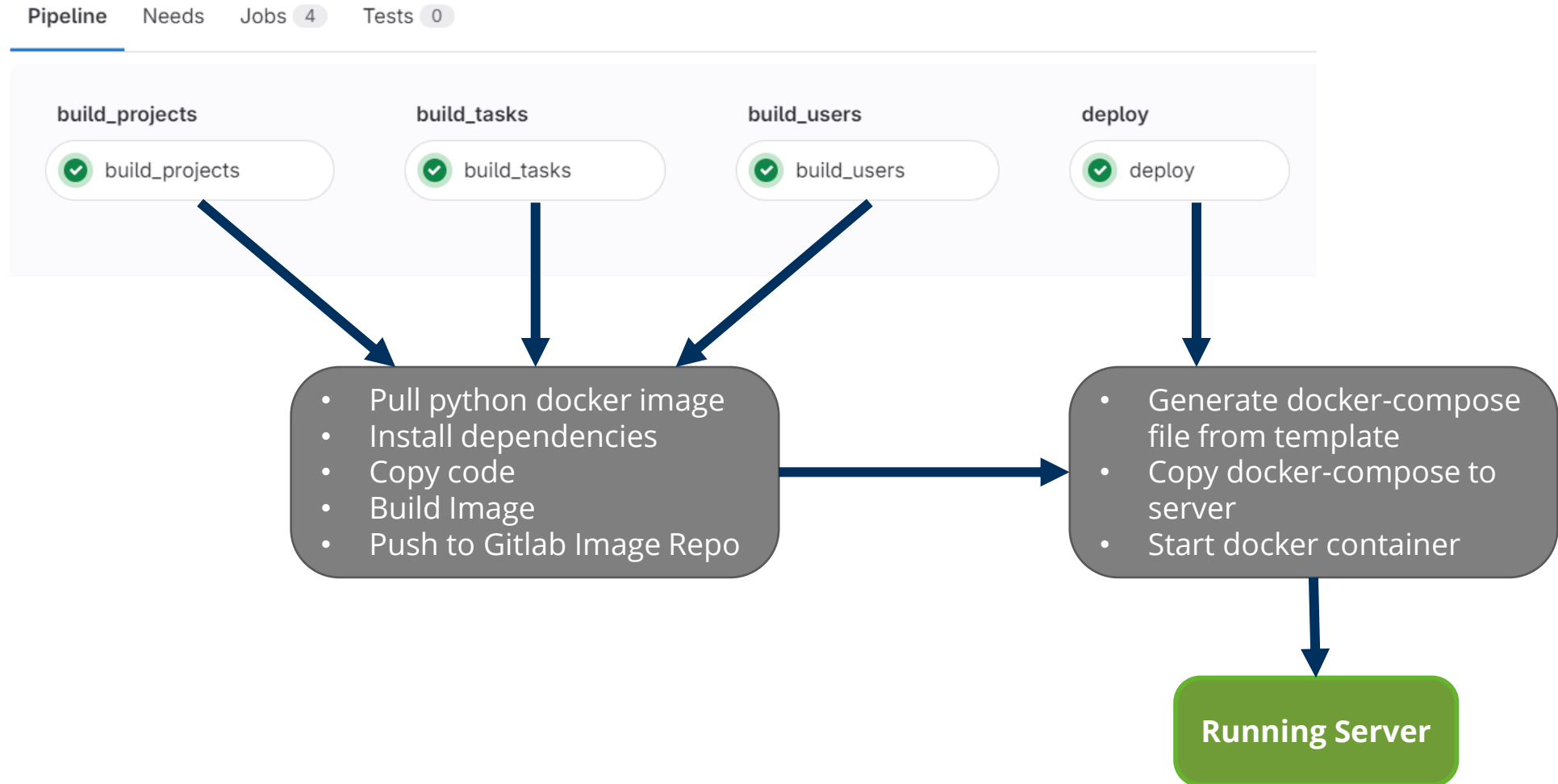


# Sicherheit



- **Alle Zugriffe über HTTPS**
- **Self Signed Certificate**
- **Alt-Name: IP-Adresse des Servers**

# CI/CD

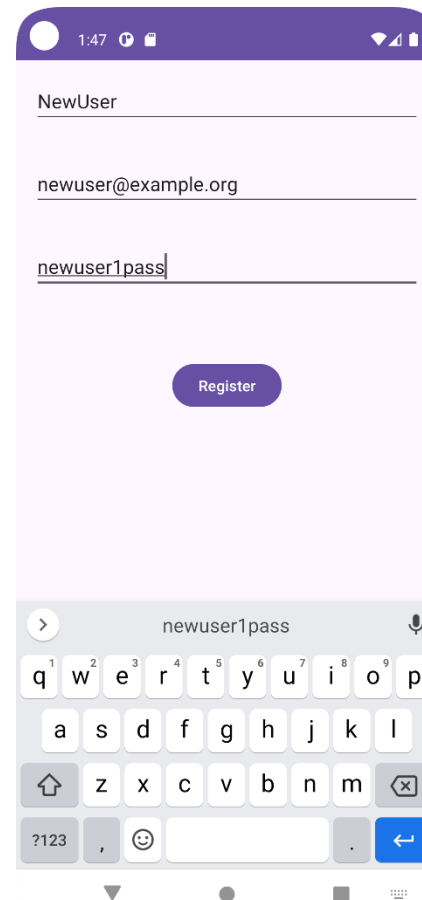




# Demo



# Demo

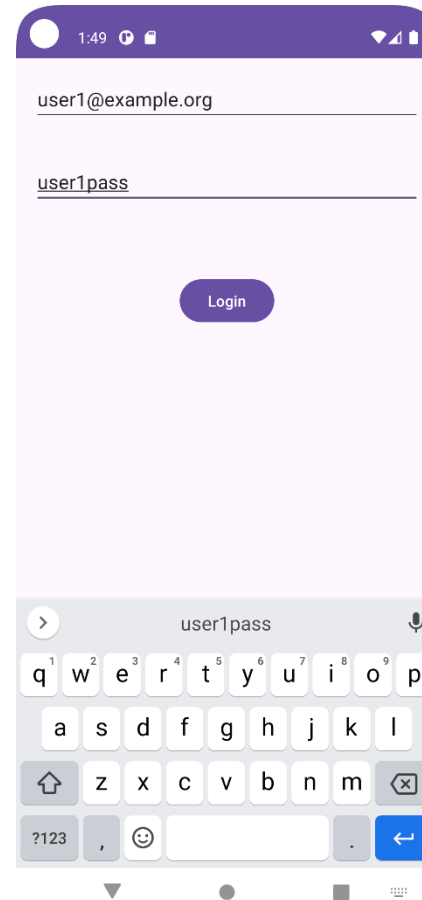


A mobile application interface for user registration. The screen has a light purple background. At the top, there is a status bar with a white circle, the time 1:47, and icons for signal, Wi-Fi, and battery. Below the status bar, the text "NewUser" is displayed in a dark purple font. Underneath, there are three input fields: the first contains "newuser@example.org", the second contains "newuser1pass", and the third is empty. A dark purple "Register" button is centered below the input fields. At the bottom, a virtual keyboard is visible, showing the text "newuser1pass" in the search bar and a blue back arrow button.

# Demo



# Demo



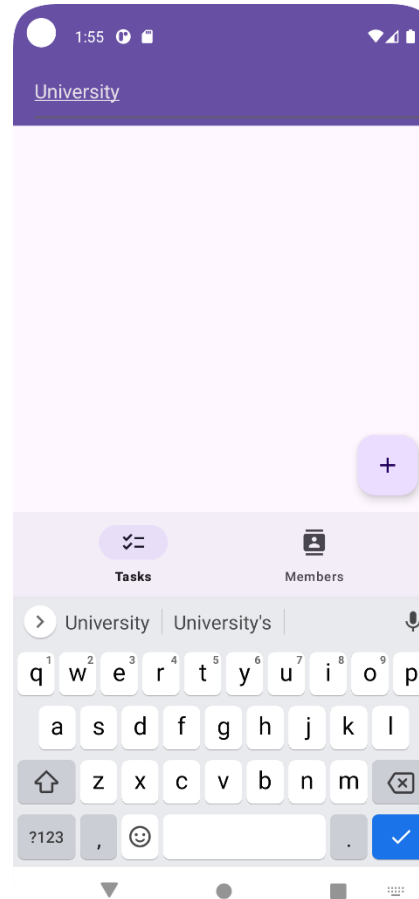
# Demo



# Demo



# Demo

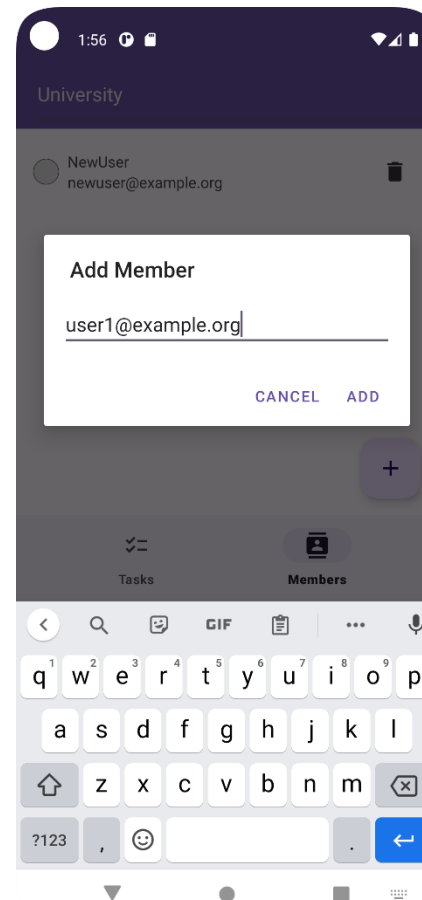


# Demo

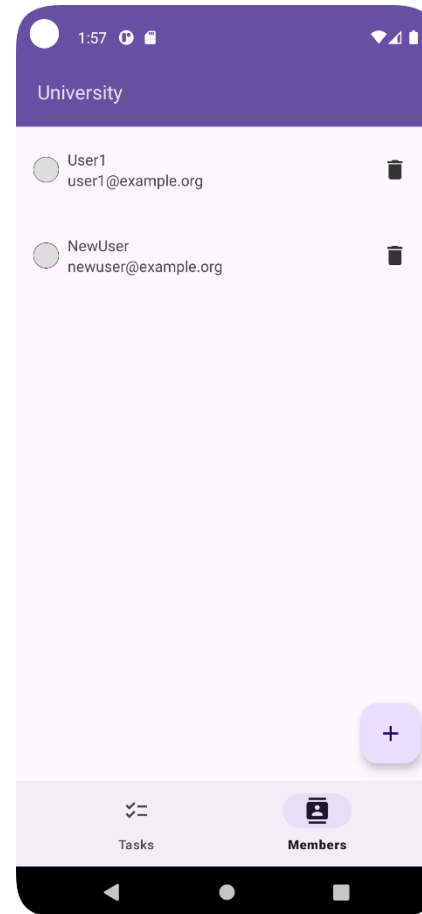




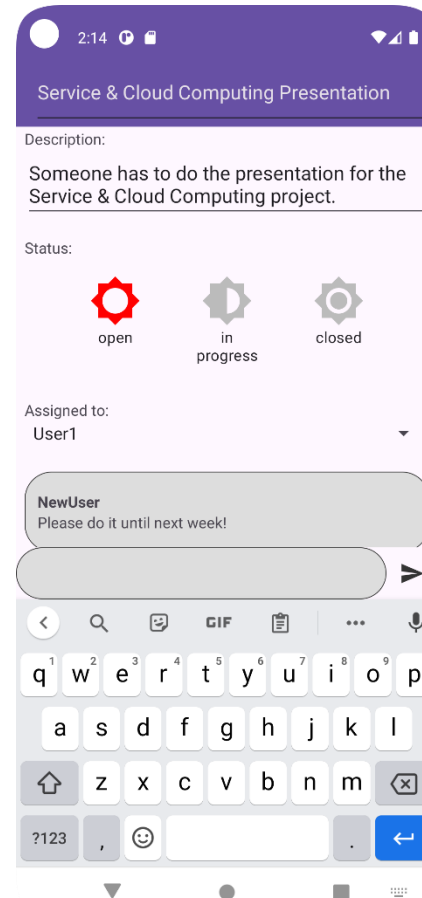
# Demo



# Demo



# Demo



# Demo

