

CSD 430  
B.Tech Project  
**EZBuild: Self Service Portal**

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# Introduction

- An easy to use **Rapid Mobile Application Development Platform (RMADP)** for any Dell/Dell EMC employee to develop an enterprise app without any knowledge of programming.

## What is it?



- Study by Salesforce.com: **34% increase** in employee productivity when using enterprise mobile apps
- **Reduce developer effort** in making simple apps
- **Resolving bottleneck issues:** Mobile Experience Engineering team as gateway for all mobile apps

## Why?



Question by Jessica Lock from the Noun Project

What is Presentation by Deepz from the Noun Project

# Related Works: Existing Tools



## Kinetise

- Developer friendly
- Creation of UI components through drag and drop editor
- Creation of backend components through their own backend services



## Kony

- One click deployment for both apps and backend services
- Market place with reusable components
- Database as simple as excel



## Thunkable

- Drag and drop for core logic apart from UI components
- Community driven support

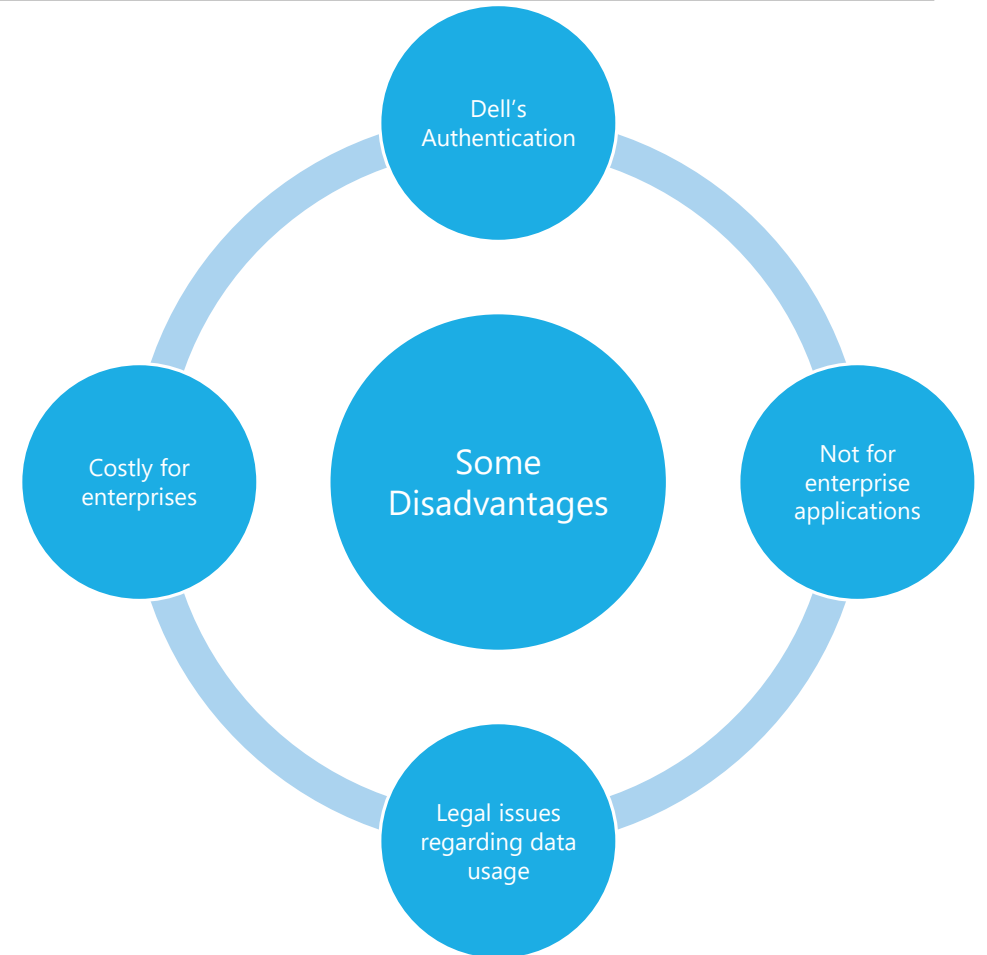
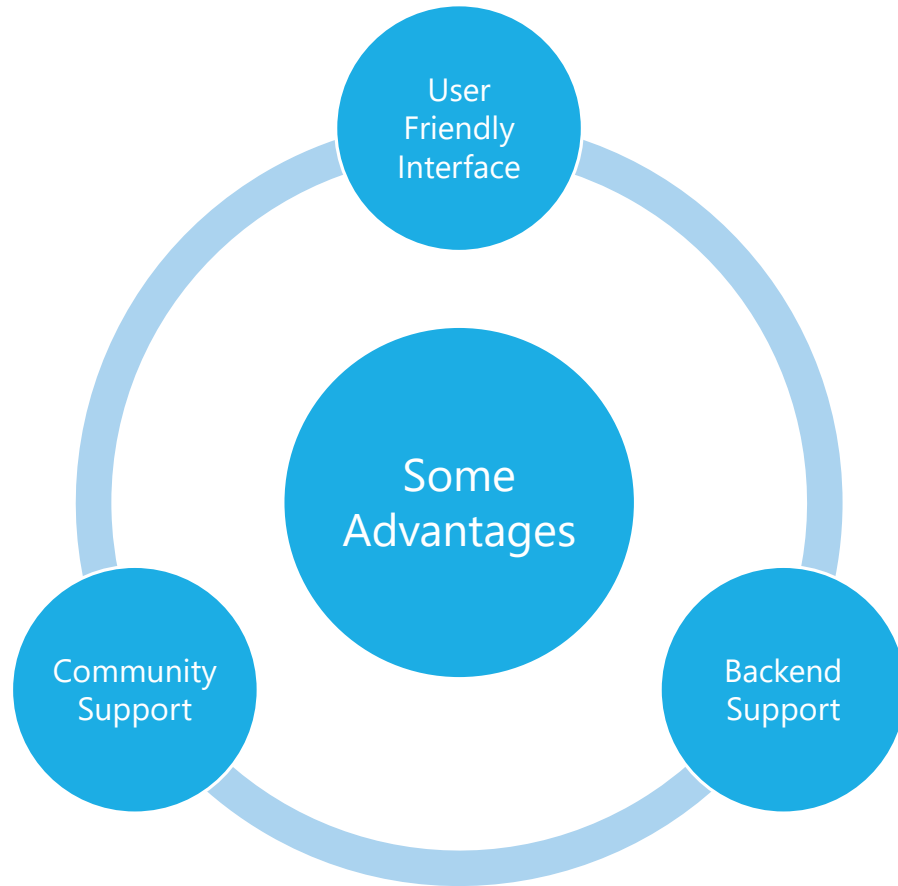


## Shoutem

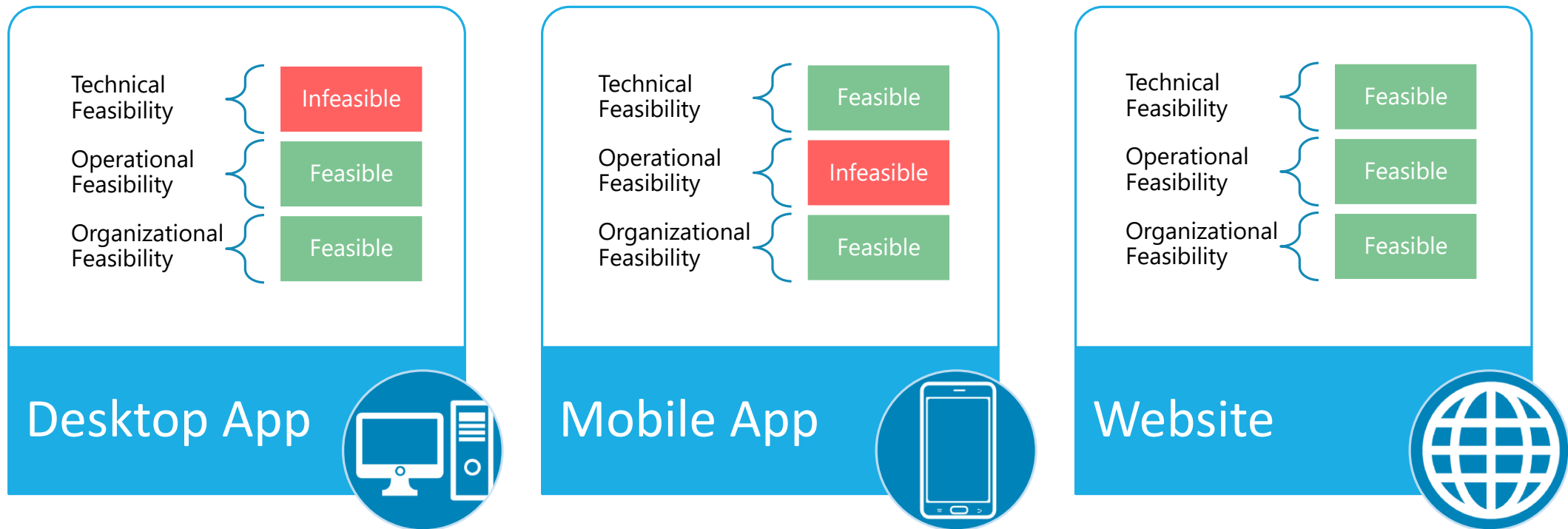
- Color based themes and layouts
- No drag and drop components, instead has select boxes and other inputs
- Catered towards blog owners

Kinetise: [https://pbs.twimg.com/profile\\_images/529796096747245569/flRacsy5\\_400x400.png](https://pbs.twimg.com/profile_images/529796096747245569/flRacsy5_400x400.png)  
Kony: [https://pbs.twimg.com/profile\\_images/884503905303838722/ID9Dae6o\\_400x400.jpg](https://pbs.twimg.com/profile_images/884503905303838722/ID9Dae6o_400x400.jpg)  
Thunkable: [https://pbs.twimg.com/profile\\_images/773688161834831873/YCq3TLcx.jpg](https://pbs.twimg.com/profile_images/773688161834831873/YCq3TLcx.jpg)  
Shoutem: [https://pbs.twimg.com/profile\\_images/727775569807609856/8GDh\\_B9O\\_400x400.jpg](https://pbs.twimg.com/profile_images/727775569807609856/8GDh_B9O_400x400.jpg)

# Related Works: Why reinvent the wheel?



# Feasibility Study



Desktop Icon: Icons made by [Freepik](https://www.flaticon.com) from [www.flaticon.com](https://www.flaticon.com)  
Mobile Icon: Icons made by [Freepik](https://www.flaticon.com) from [www.flaticon.com](https://www.flaticon.com)  
Grid Globe: Icons made by [Yannick](https://www.flaticon.com) from [www.flaticon.com](https://www.flaticon.com)

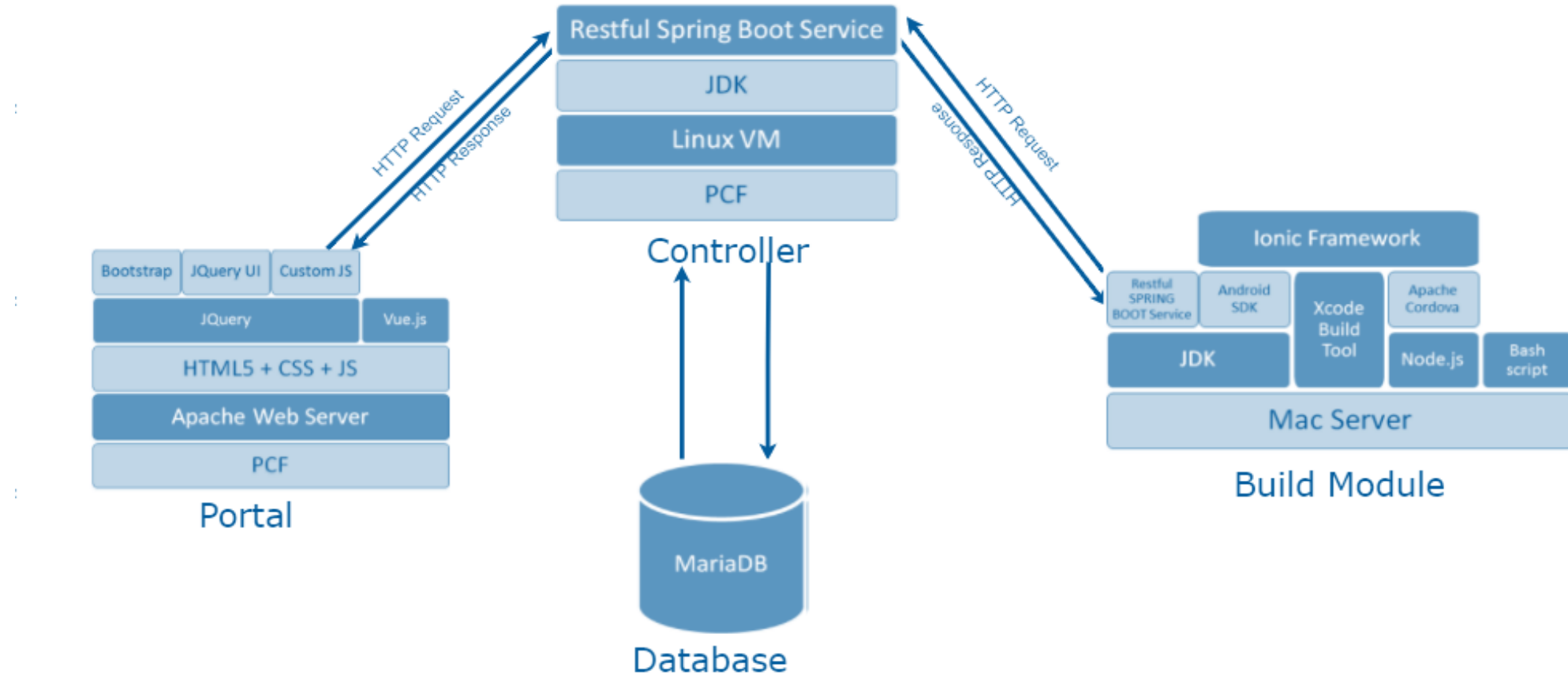
# Project Description: Requirements

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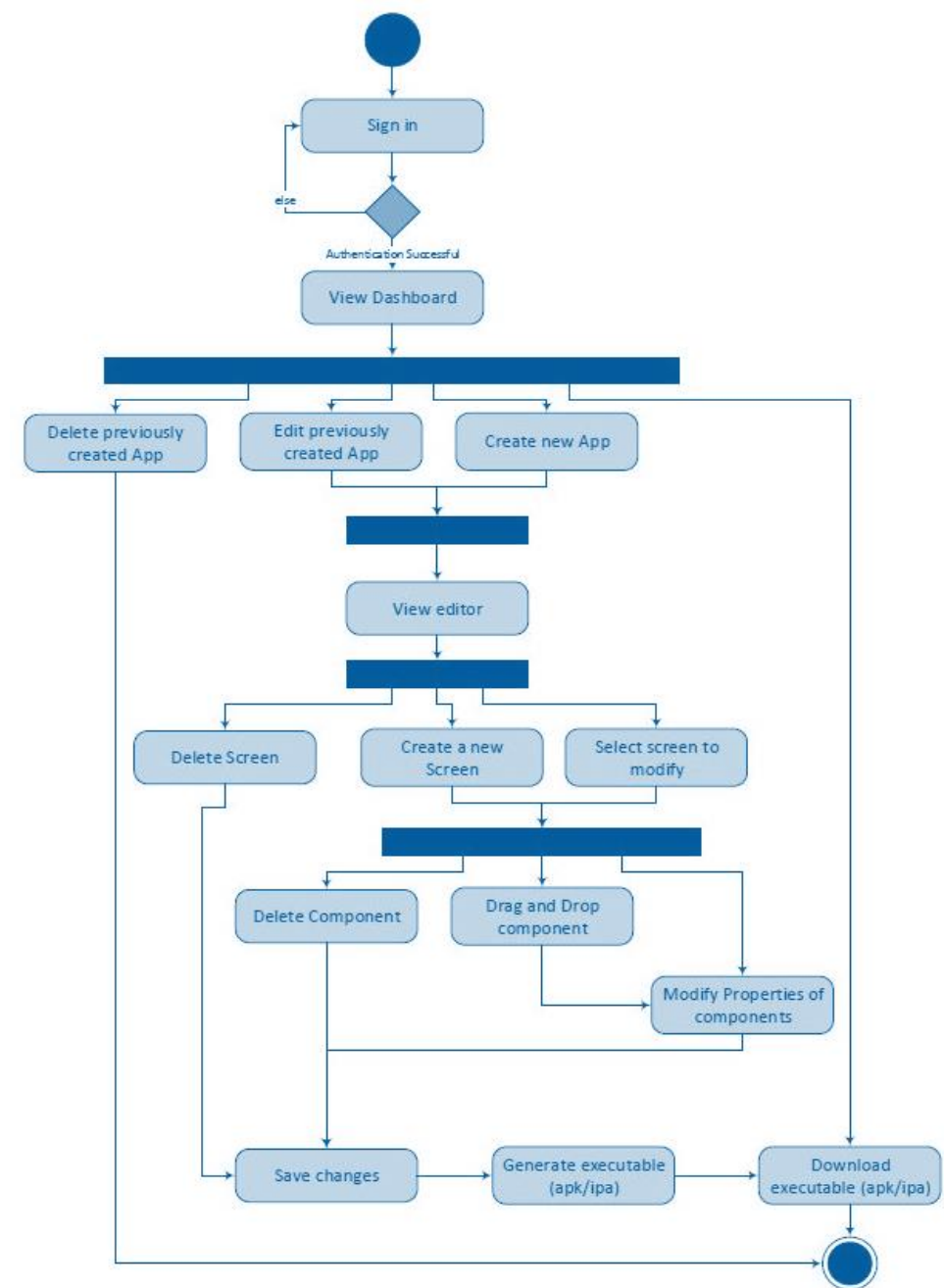
With the Self-Service portal a user must be able to

- **Create, edit, delete** and **view** app projects
- **Create screens:** blank, tabs, menu
- **Drag and drop components:** Login, List view etc
- **Backend support:** properties of components
- **Build and download:** .apk (Android Package) file/ .ipa (iPhone application)

# Project Description: Portal Layer

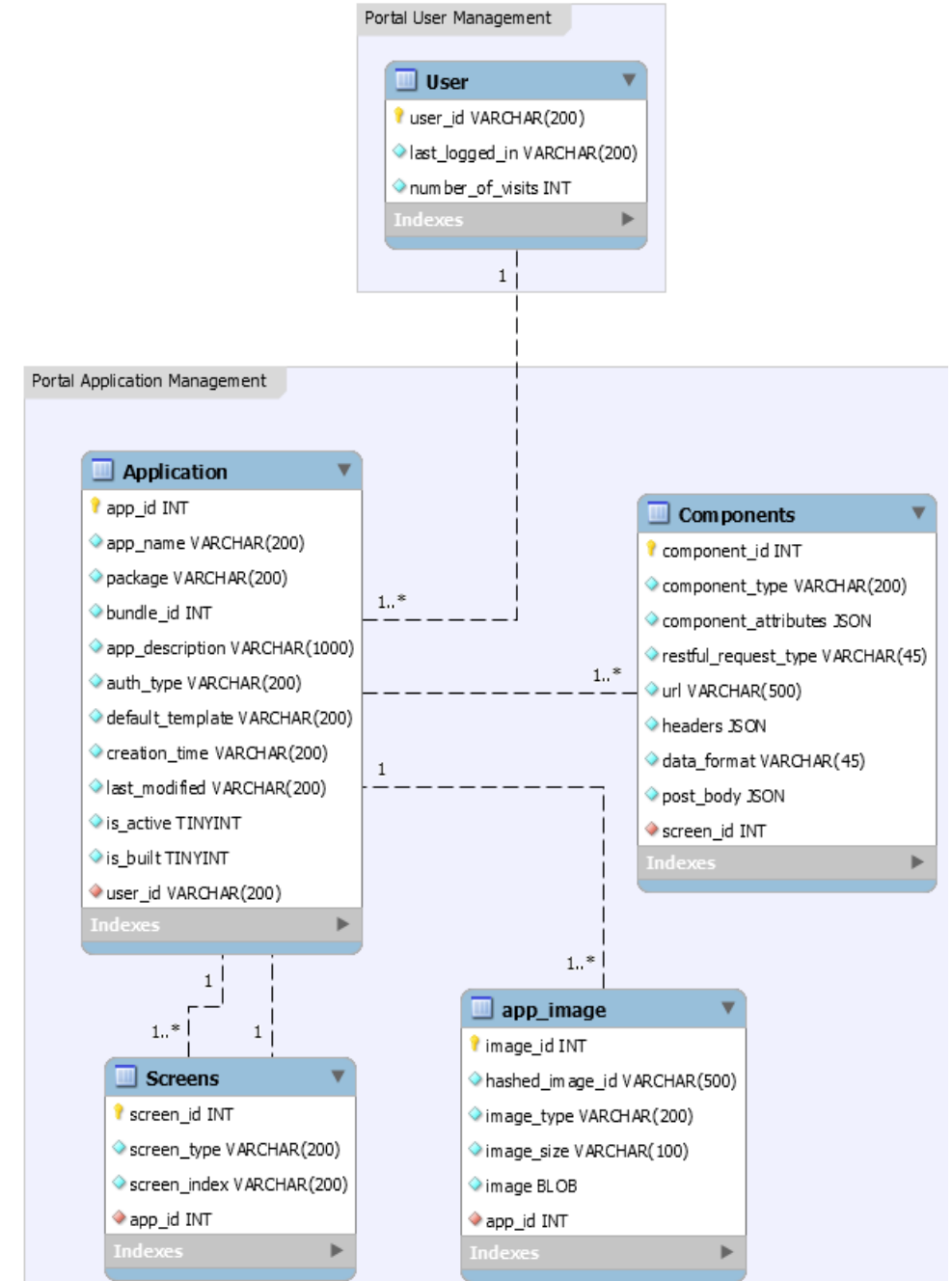


# Project Description: Activity Diagram





# Project Description: Database Schema





# Project Description: Features

## Portal

App Dashboard

App Editor

Admin Panel

## Controller

Auto-save

Portal Application Management

Portal User Management

Poll and download apk/ipa

## Build Server

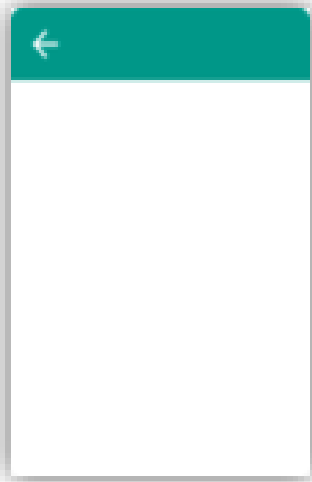
Generate ionic projects with required components

Generate apk/ipa

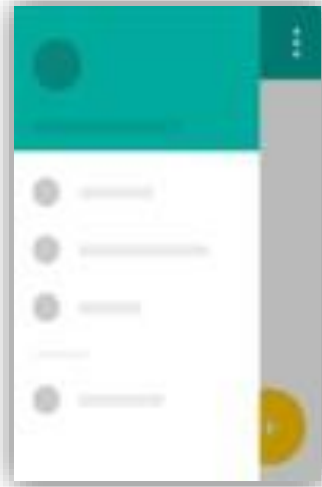
Ability to generate applications in parallel

# Features: Templates

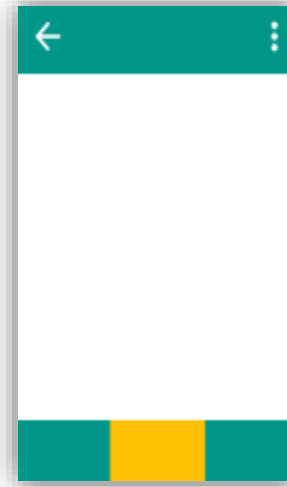
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Blank  
Template



Sidebar  
Template

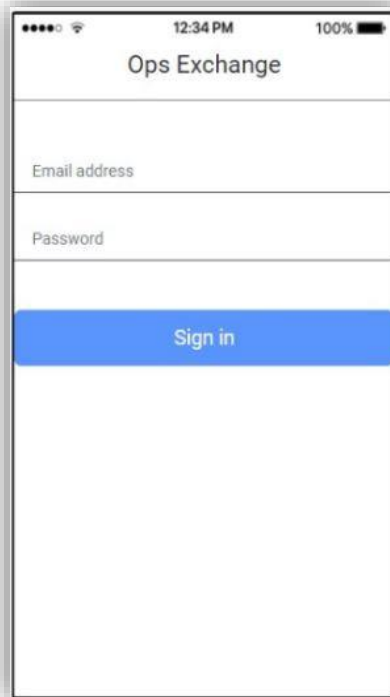


Tabs  
Template

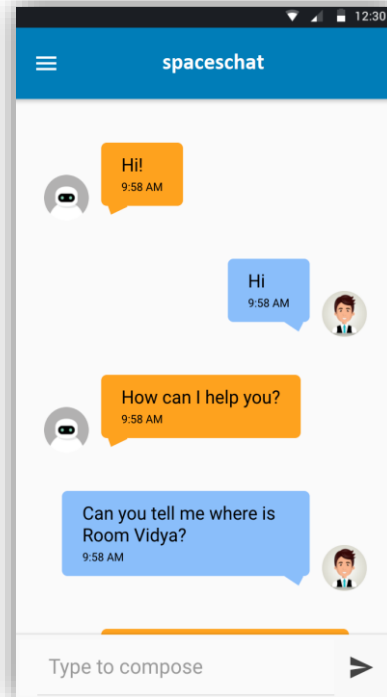


Web App  
Template

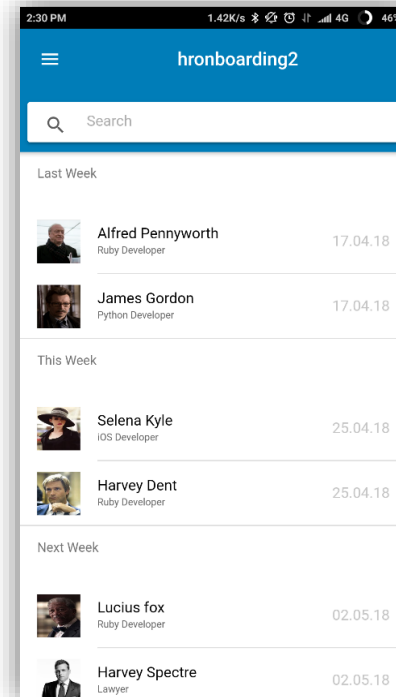
# Features: Components



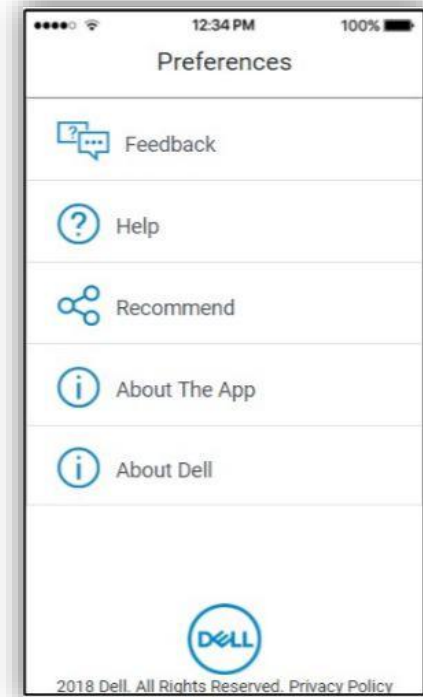
Login



Chatbot



List Catalogue



Preferences

# Demo

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<https://bit.ly/2I6IYPU>

Introduction

Related Works

Feasibility Study

Project Description

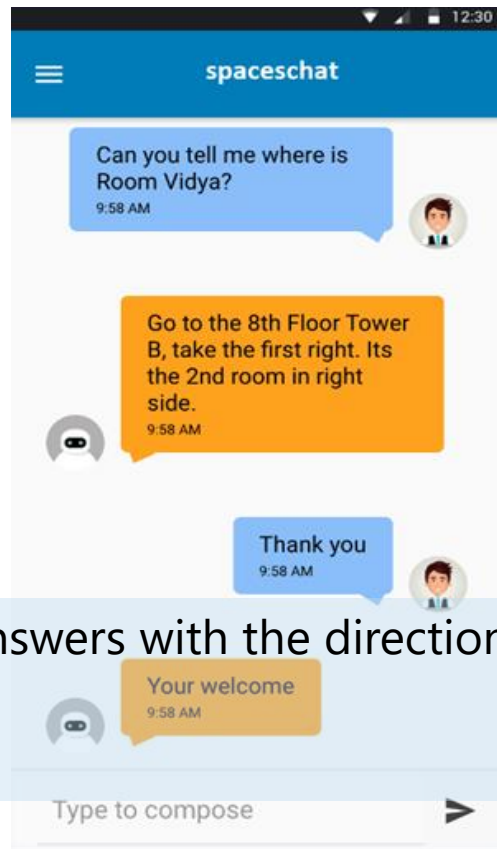
Features

Business Use Cases

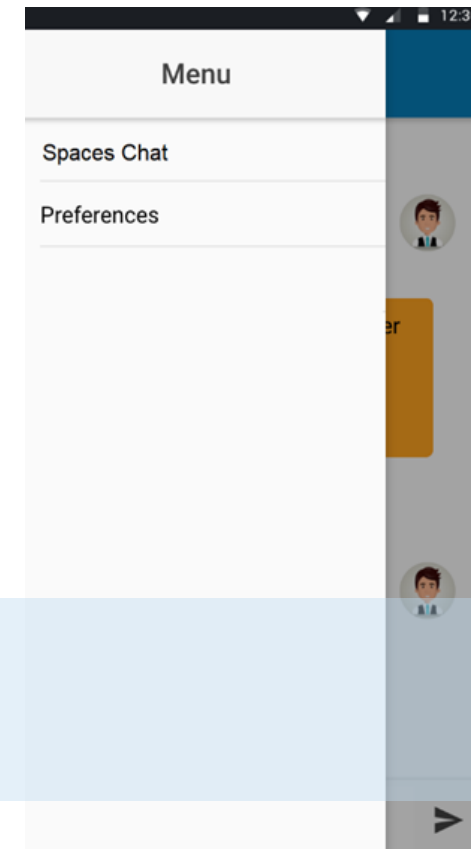
Project Timeline

Future Work

# Project Description: SpacesChat

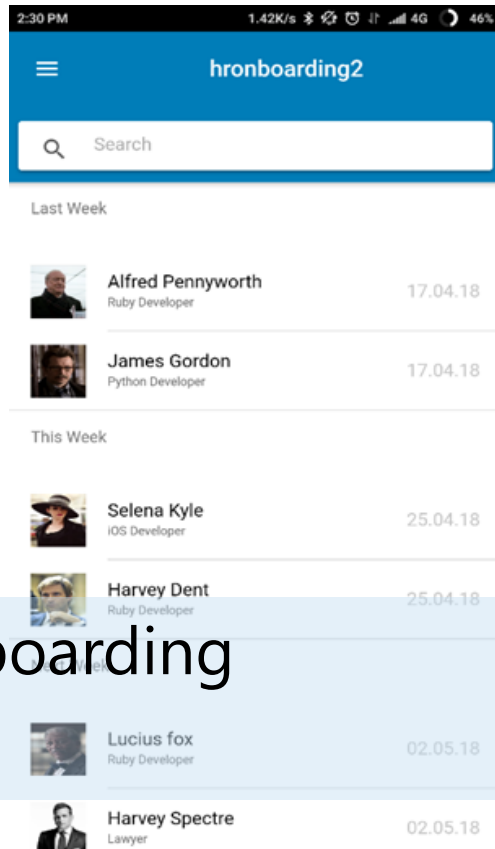


Chatbot answers with the directions for the room

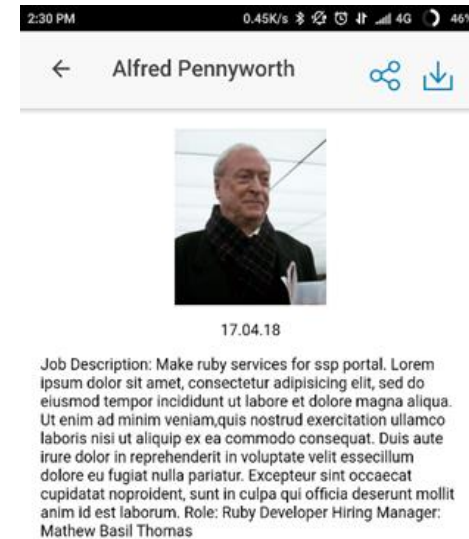


Side Menu

# Project Description: HR Onboarding App



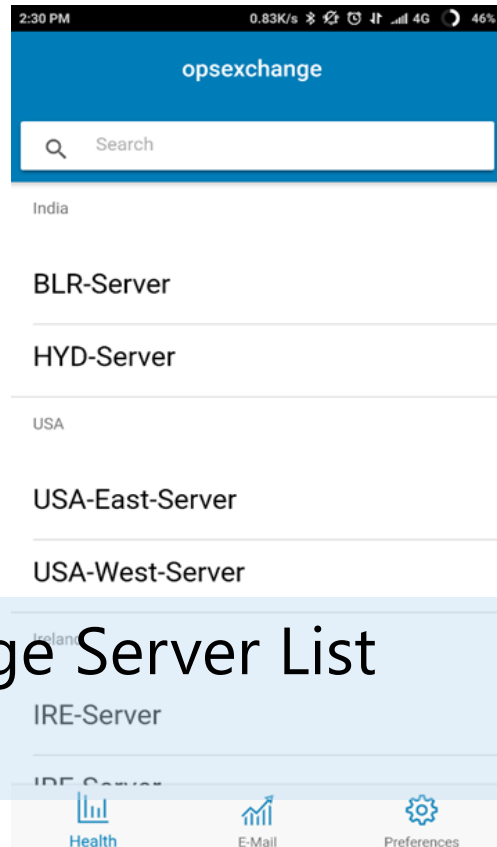
HR Onboarding



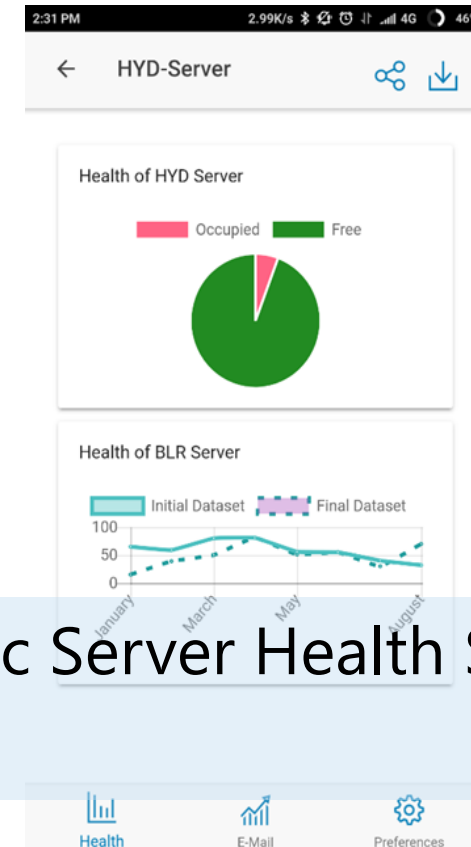
Candidate Description



# Project Description: OpsExchange

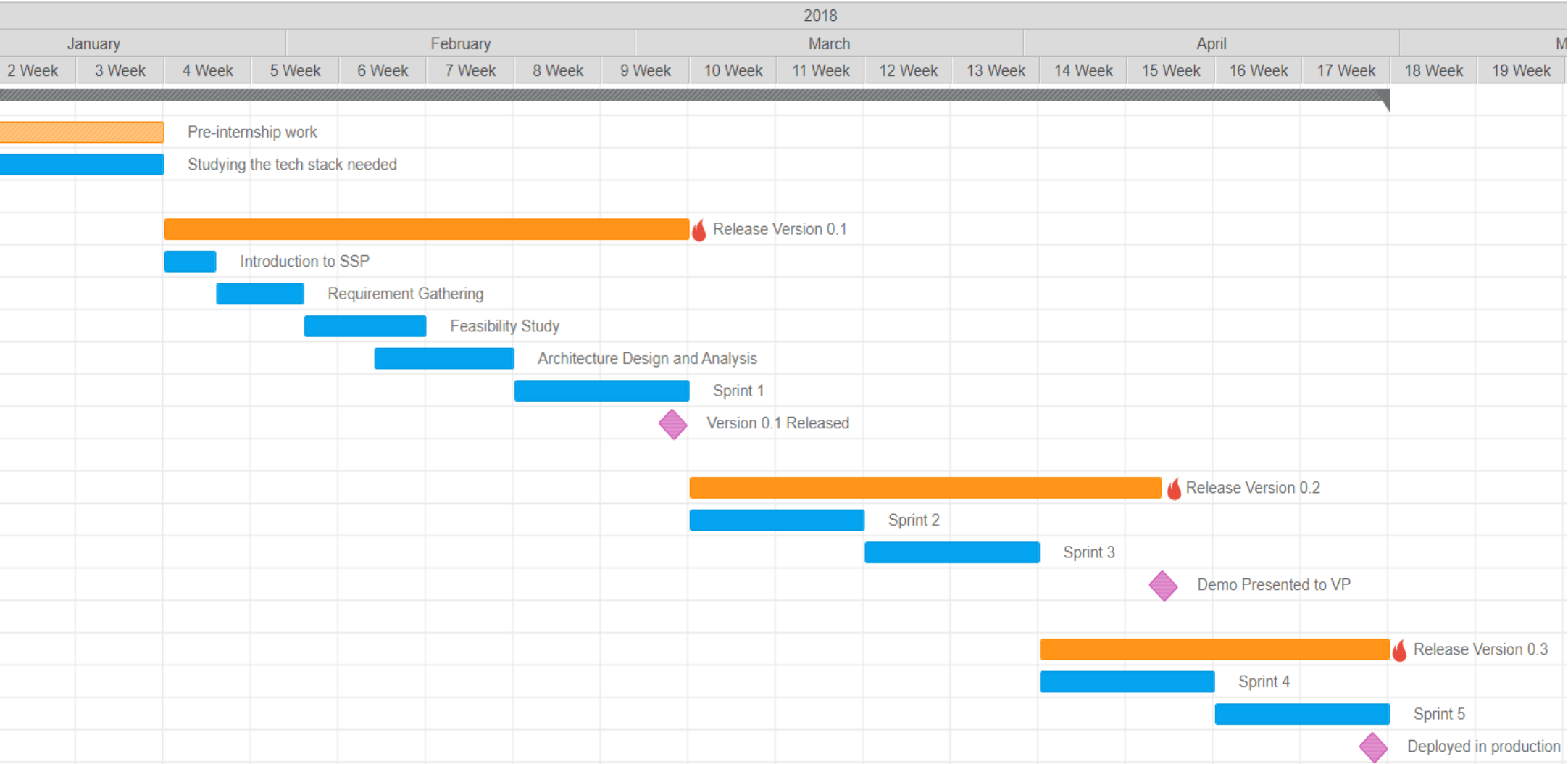


Exchange Server List



Dynamic Server Health Status

# Project Timeline



# Conclusion and Future Work

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Undo Feature

Online  
Simulator

Market place

Postman  
Integration

Automated  
Service  
Creation

Preview for  
flow of  
screens

# Thank you...

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QUESTIONS?