Onetech Asia Project Management Tools Mobile application

Tran Truong Minh Toan

Supervisor: Vo Thanh Duy

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Introduction

1. About this project

Background: As Developer of Onetech Asia, I realize our project management tool have lot of deficiency: not have real time status, task management function has many redundant operations, project manager of one project cannot assign to other project, … I want to improve it, that why this project started

1. Scope of this project:

Scope of this project is about build one mobile application for project management, which is running local for employee in Onetech Asia, have some task management function: create project, create task, delete task, assign task, assign leader, … and create one more function for project management: export project report, report by chart

1. Aim and Objective:

Aim of this project: Create one project management tools for Onetech Asia, with some function already have in older project management tools, customize and add some new function, and make it run on local computer for security. It will also have one admin

Objective: Because the aim of project is creating project management tools, and use for a long time, I will choose to learn some new technical, but not too new, it will have some support from community. I have one list of new technical fit with my objective:

* Database: postgres SQL
* Back-end API: Go lang
* Front-end: React-native and react-web.
* Some other technical: Redux saga for stage management and react-navigation for navigate
  1. Investigate how to make project management tools with all technical I have listed

Task:

* Use open-source project management tools to find out how they make that tools, the flow of code and how they can handle some regular bugs

Deliverable:

* Know how to make one complete project management tools
* A list of requirement and solution for project
  1. Investigate how to upscale this project in the future

Task:

* Find some solution for upscale and maintain project in the future, from forum/community support

Deliverable:

* List of future solution for future upscale and maintenance
  1. Make a plan from solution list and requirement list

Task:

* Estimate for project based on solution list and requirement list

Deliverable:

* Completely plans for project
  1. Coding

Task:

* Create mobile interface for project
* Make function for project (create project, create task, …)
* Create admin website interface for project
* Complete admin back-end for project

Deliverable:

* One complete project with mobile app for android, and maybe iOS, one admin control panel as website for admin permission
  1. Testing

Task:

* Create one test case, test plan, test report that can help other developer for this project can re-use it and can test it completely without any bug or crash
* Testing all over project from test case and test plan, with interaction test, mockup test, …

Deliverable:

* One completely test report, attached with completely test case/test plan, and full of testing method like interaction test, mockup test, full system testing, …
* All test cases are running well; all other testing method is used to reduce bugs as much as I can

Legal, Social, Ethical and Professional

As local application, I think I don’t need to think about ethical and social too much. I will only need to make application legal, and professional. As plan, I will try to protect employee data as much as possible, and also other legal issue. I also need to make it professional, test it carefully before release to our company’s employee