

# **Design: Proposed Project Idea and Minimum Viable Product (MVP)**

**Title: Project Daily Report**

**Student Name: Parisa Nikoukar**

# 1. Problem Description:

## 1-1: What is the project?

Project Daily Report is an application for giving daily status report by people who are working in to accomplish some tasks in a project to keep their team members and supervisors updated about their progress in the project. This application is not about sending informal messages to other team members about their status in a project in a way that some people might have had experience with social media tools like Slack. Instead it is about updating your colleagues about tasks you have done in a well-organized way.

## 2-2: What Problems will your application solve?

This project to a great extent can be a replacement for a daily face-to-face meeting that team may have for their projects to save their time and also team members and specifically project manager can follow each person's progress in a more precise way. On the other side, there might be some companies that do not have daily meetings, using this application can help them to keep themselves more updated about other team members' performance.

## 2-3: Who are the user personas that would derive value from your web application?

Users of this application can be anyone who is involved in projects in any work setting like a researcher in a lab working on respiration system of mouse, a civil engineer involved in construction projects or salesperson working in a small business company as a digital marketer.

## 2-4: What value or benefits are derive from solving this problem?

This application can be a great tool to examine each person daily performance in doing his or her tasks and if there is a lack in one's job, It can be justified to add more people to the project or even remove a person who is not doing his or her tasks as expected to.

## 2-5: How would your anticipated users solve their problem with your web application?

Team members specially project managers can get better ideas in terms of each person's performance in the project like preparing better tools for accomplishing project tasks or employing more experts for the projects.

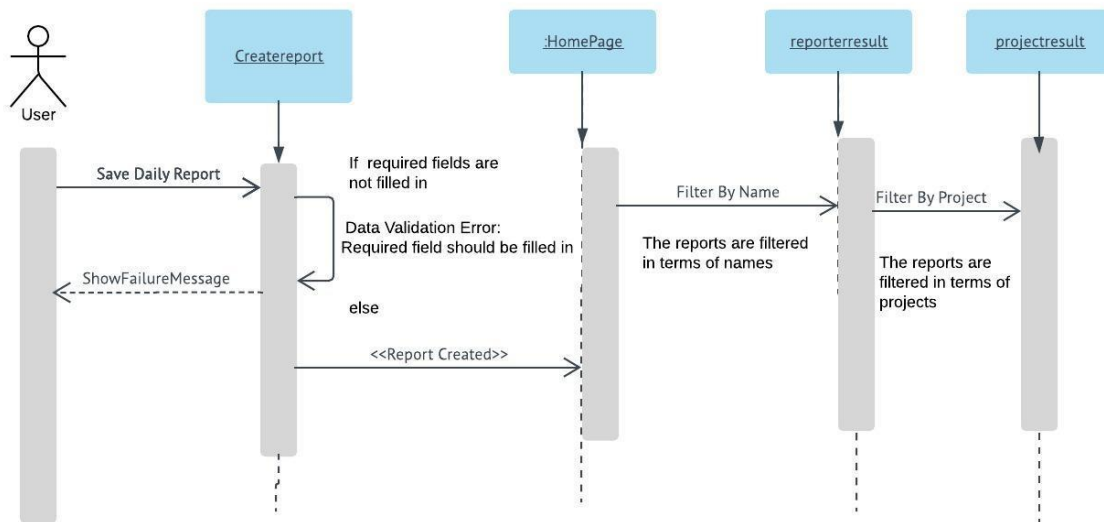
## 2-6: How do you imagine they would interact with your application?

As Users of this application might have various abilities using technology, the application should be designed in a simple way to be easy to use and user-friendly.

## 2. Minimum Viable Product (MVP)

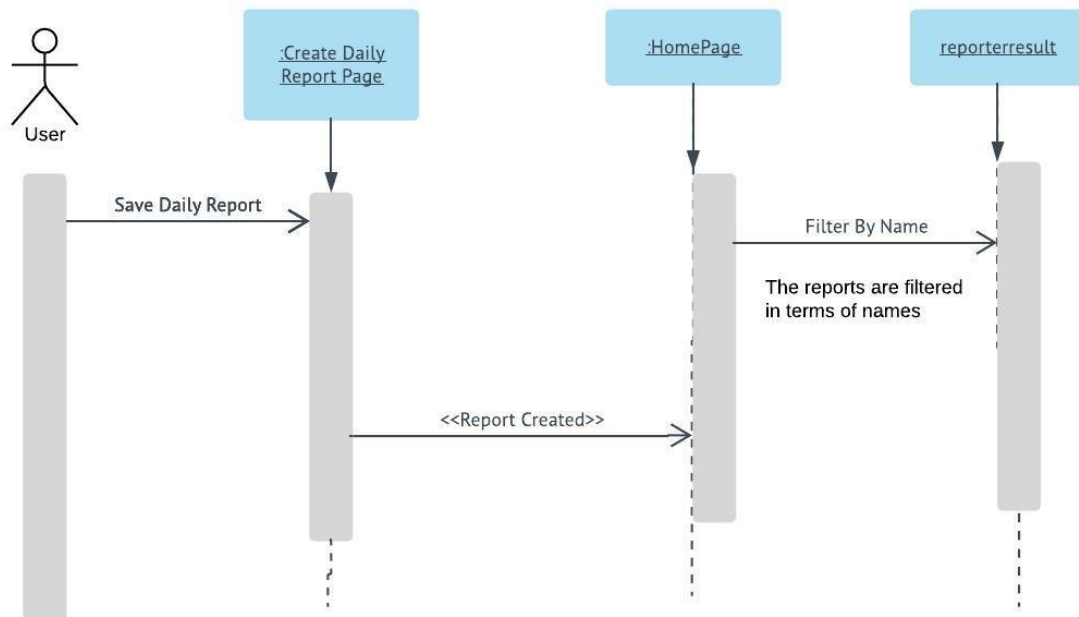
### 2-1.A high-level overview of the features necessary for users to solve all problems you have identified

There should be a page for creating reports with some fields related to status report and user should be able to fill in the form and save it into the database. The diagram below shows the user interaction with the application:



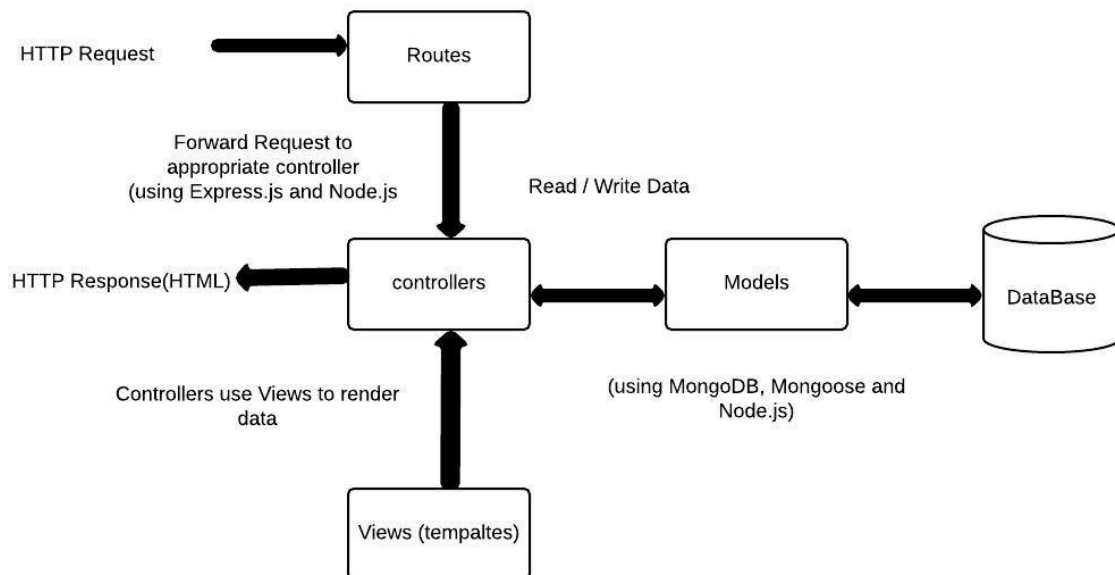
### 2-2.What minimal set of features will provide a workable solution to your users?

The minimal set of features that the application needs to be workable are having a create report page for the users to create their reports. This page will have certain fields that needs to be filled in but it is not necessary to have required fields and having data validation errors, the report will be saved even if some of the fields are not filled in. Moreover, on the home page having one filter feature like name will suffice for the users. Below shows user's interaction with minimal features of the application:



### 2-3.A high-level architecture picture:

The Model-View-Controller pattern will be used for this application, the following picture shows different application components:



## 2-4.A high-level description of the data

In this application MongoDB will be used as the database and I will have three collections called dailyReport, reporter and project and each reporter and project will have a reference in the dailyReport collection, therefore there is a one-to-many relationship between reporter and dailyReport collections and also project and dailyReport as well.

