

## General Instructions - DELETE BEFORE CREATING FINAL REPORT

- The report should be not more than 2 pages in length - only brief descriptions are expected. Use standard A4 page size and 10pt font.
- This report, as well as the video are **mandatory** submissions. Your final project will not receive a grade unless you have submitted both.
- The video accompanying the project report should be uploaded under your onlinedegree Google account, and shared with the instructors. Do NOT upload the video as part of your submission - only the link to the video should be uploaded.
- If you use this file as the template - remove all <<tagged>> entries. These are present only as guidelines, and SHOULD NOT BE in the final submission.
- Final submission should have one ZIP file containing the following:
  - This report in PDF form
  - Your code folder with all necessary files needed to run and test. The code should also have a README file that explains how to run the code.
  - YAML file used for API definition

## Author

Sajal Saxena

21f1003503

21f1003503@ds.study.iitm.ac.in

I'm a degree potential student, with interest in data science. I'm also a recent engineering pass out and have worked on projects in the field of AI.

## Description

I have worked on the household services app for this term. It's called FixItNow! The app is used to connect professionals who can provide various services like cleaning, electrical repairs or plumbing services to customers who need to avail such services. The app is supposed to provide a hassle-free way to connect both the parties. It is for this reason a simple design was chosen for the frontend.

## Technologies used

Flask, Flask restful is used for API implementations, Flask Security Too is used for token based user validation. Redis is used for caching. Celery is used for scheduling backend jobs. Vuejs is used for frontend UI, rolebased user browsing of the app. The data is stored in SQLite database.

## DB Schema Design

The models are stored in models.py file. This file contains User table where user data is stored, Roles table where the roles are stored, Service table which contains the various services created by the admin, Service Request table where the service requests are stored, Service Request Status table to store the status of service requests in terms of acceptance or rejection of a service request by a service professional and a Complaint table to keep a track of complaints made by a customer in case service performed by a service professional was not upto the mark.

<https://drive.google.com/file/d/1e5QbpufAThWgf4qBjELpay4v8xkM2or9/view?usp=sharing>

## Architecture and Features

The project has all the files separated into two sections: application and static. The backend files (python) are stored in application and front-end files (VueJS) files are stored in static folder. All the controllers and resources for backend are stored in application folder. All the vue templates are stored in static folder. The app allows users to register a complaint against bad service professionals and let the admin flag them off for faulty services.

## Video

<https://drive.google.com/file/d/1f4S-UXKIRFGkfgRKmgdl3Okt--ukaqbz/view?usp=sharing>