

USchedule

by FUZZ

PURPOSE

LAC+USC psychiatry residency program has 24 residents, interns and second-year residents, who rotate through the facility under Chief Resident Dr. Kelly Jones.

Dr. Jones is responsible for the creation of a call schedule for the year which takes into account the responsibilities of Day float, Night float, Long call, and Short Call. Each resident rotates over the course of a two month block.

The creation of this schedule by hand requires lots of time and resources from Dr. Jones, and she needs a system that can accelerate this process. Our goal was to create such a system.

WELCOME PAGE



MacBook Pro

USchedule is a web application which takes in residents' preferences and generates a call schedule based off the constraints given by the administrator.

The user will be able to navigate through the application, viewing or editing resident information, and adding constraints to generate a schedule.

USchedule consists of a Welcome page, Residents page, View Current Schedule page, and a Create Schedule page.

RESOURCES

USchedule's graphical user interface is designed with Node.js and React, using Visual Studio Code as the text editor.

Our back end classes and scheduling algorithm are written using Python Flask. We used Google OR Tools for help with our algorithm.

We are using MySQL Connector to connect to our database which is hosted on Amazon Web Services Relational Database Services. It is running on MySQL using MySQLWorkbench.