**UNIVERSITY OF THE SOUTHERN CARIBBEAN**

**MARACAS ROYAL ROAD, MARACAS, ST. JOSEPH.**

Assignment 3/Project 1

Internet Technologies: CPTR332

INSTRUCTOR: Connell Hunt

By

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Functional Requirements

List of requirements that software that our software should be able to do:

1. Authentication for employees
2. Authorization for employees with different privileges and permission levels
3. Club members can fill out form
4. Easy to use UI
5. Create appointments
6. Block appointments if slot is already full
7. Employees should set lunch hour between 11am and 1pm
8. Employee should be able to view all appointments
9. Make each appointment slot 1 hour
10. Set companies available time from 8am to 2pm on Mondays to Thursdays, however on Fridays it is 3pm
11. Reminders via email and/or SMS
12. Add appointments to Google Calendars and others

Database Schema

1. **Employees** (employee\_id\*, first\_name, last\_name, email, mobile\_number, password, permission\_level, profile\_image)
2. **Employee\_Preferences** (employee\_id\*, lunch\_time)
3. **Appointments** (id\*, employee\_id, title, description, club\_member, date\_of\_appointment, last\_updated, created\_at)

The application stack to be used for this project will be the MERN stack.

MongoDB being the database which will be connected to the Node.js app with the mongoose library. Express.js will be the framework used in the Node.js environment to help structure the code. React.js will be used with Bootstrap and many other libraries for the web frontend.