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Readme Phase IV

i. Instructions to setup your app

To set up our app, first make sure you have Node.js and Python 3 or higher installed. Create a virtual environment and install the necessary dependencies (pip install -r requirements.txt). Then configure your .env file to your specific MySQL information, and set up the database/stored procedures by running the following instructions:

```
mysql -u root -p
```

```
> DROP DATABASE IF EXISTS flight_tracking;
```

```
> CREATE DATABASE flight_tracking;
```

```
> USE flight_tracking;
```

```
> EXIT;
```

```
mysql -u root -p flight_tracking < schema.sql
```

```
mysql -u root -p flight_tracking < procedures.sql
```

Run npm install within our client folder in order to install all necessary dependencies.

ii. Instructions to run your app

To run our app, from the backend folder ('cd server'), run 'flask run'—a flask API server will be started on localhost:5000. Then run the app using python app.py. From our client folder ('cd client'), run 'npm start', which will start up React on localhost:3000.

iii. Brief explanation of what technologies you used and how you accomplished your application (don't spend too much time on this)

For this phase, we use React.js for our frontend UI, Flask for our backend API server, and MySQL as our relational database. Flask essentially helped us to handle interacting with the database and routing requests. By creating forms and views using React, we incorporated each stored procedure into the frontend.

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iv. Explanation of how work was distributed among the team members

Our group worked collaboratively on setting up our initial database and debugging our Phase 3 sql procedures and failed test cases in order to use them for Phase 4. We split up the first 12 procedures, each team member being assigned to implement 3 procedures and their associated views in the dashboard. We decided to work on the 13th procedure last as it required a more complicated implementation that depended on the other procedures. Our team met consistently across the span of 2 weeks to brainstorm how we wanted to set up our phase, decide on the technologies we wanted to use, and collaborated heavily on implementation.