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Assignment 3

1. Project Specification

**Hardware**: Desktop, Laptop, Tablet, Phone, mySQL, Apache

**Graphic User Interfaces**: Buttons, Dialog Box, Icons, Dropdown menus, Menu Bars, Hyperlinks

**Internal Interfaces**: JavaScript(?)

**External Interfaces**: TripAdvisor API

1. Proposed Project Design: **Shared Data Architectural Style**

Diagram

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I used the shared data architectural style because my project takes the flight reservation, hotel reservation, and car rental information from a user and stores them in an easy to reference place. Once the user signs into the website, they will have the opportunity to enter all 3 of those categories or just whichever ones they need. A shared data architecture will treat each area as its own component and store them in a centralized database. While this method creates strongly coupled data, there are a few drawbacks. The main drawback is that a centralized database with all of a user’s information may be vulnerable to a data hack and be dangerous for a user. However, I feel that risk is small compared to the ease a user will feel knowing all of their reservation information is in a convenient location. As the development of this project continues, security measures will continue to be explored and considered to avoid any personal information hacks. However, the shared state software architecture bests fits my project.

1. UML Class Diagram

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Diagram

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