

Introduction: This report outlines the technology choices made for the Car Rental System. Python with Flask was chosen for its simplicity and speed of development.

Reasons for Choosing Python and Flask:

1. **Simplicity:** Python's straightforward syntax and extensive standard library make it easy to understand and work with. Flask, being a microframework, provides just the essentials for web development without unnecessary complexity.
2. **Rapid Development:** Python's simplicity allows for quick prototyping, while Flask's lightweight nature enables fast development of web applications. This is crucial given the project's time constraints.
3. **Flexibility:** Python's ecosystem offers a wide range of libraries and frameworks, providing flexibility in integrating with other tools and services as needed.

Database Choice: SQLite was chosen as the database solution due to its simplicity and seamless integration with Python. It requires no separate server setup and can be easily managed within the application code using the built-in sqlite3 module.

Conclusion: Python and Flask were selected for their simplicity and speed of development, while SQLite was chosen for its ease of use and integration with Python. These technologies provide a solid foundation for building the Car Rental System within the project's timeframe.