Assignment 2: Develop a case study analyzing the implementation of SDLC phases in a real-world engineering project. Evaluate how Requirement Gathering, Design, Implementation, Testing, Deployment, and Maintenance contribute to project outcomes.  
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This case study analyzes the implementation of SDLC phases in the development of ride app

**1. Requirement Gathering:**

* Meeting with the clients and identifying the needs: login page, ride availability, location tracker.
* Payment gateway, ride selecter.
* App for user, and the driver, database.

**2. Design:**

* Application designed: Mobile app, network for the driver and the users.
* Hardware components required GPS.
* Software designed for user-friendly interface, data analysis, and secure communication.

**3. Implementation:**

* Developers coded the software for the control unit and mobile app.
* Hardware components were integrated and tested for functionality.
* Security protocols implemented to protect data transmission.

**4. Testing:**

* Unit testing ensured individual components functioned correctly.
* Integration testing verified seamless communication between components.
* System testing evaluated overall functionality in a simulated scenarios for rides and ride bookings.
* Testing the app with a ride registered with the database and trying to book as a user.

**5. Deployment:**

* The application has been deployed in the market.
* Promotions are done to make the targeted audience actually use it.
* System was monitored remotely for any glitches or malfunctions.

**6. Maintenance:**

* Regular software updates addressed bugs and improved functionalities.
* Reviewing the reviews placed by the users and improving accordingly.
* Registering safe rides with the application.