Kingdom of Saudi Arabia
Ministry of Education
Imam Abdulrahman bin Faisal University
College of Science and Humanities-Jubail
Computer science Department

Software Engineering
Term 1 – 2024/2025

Project Proposal Form

- ✓ Group #:2
- ✓ Members of the group:

#	Name	ID	Role
1	Jood Mutlaq Albaqmi	2230000478	Leader
2	Nada Ali Alshamis	2230001749	Member
3	Roaa abbas Alhaddad	2230000387	Member
4	Jana Fahad Alharbi	2230004859	Member
5	Zahraa Mohammed Alqattan	2230006222	Member
6	Batool Sadiq Alsharqi	2230000960	Member
7	Kadijah Yasser Al bader	2230006906	Member
8	Shaden Alghamdi	2230003568	Member

- ✓ Title of the Project: " فَضْلُ ظَهْر"
- ✓ Introduction of the Project - Problem Statement:

The traditional car rental model faces several challenges, such as high prices, limited vehicle availability, inconvenient rental locations, and rigid pricing structures that fail to meet individual needs. At the same time, millions of private cars remain parked and unused for most of the day. This situation highlights an important opportunity to make better use of these vehicles instead of leaving them idle. This gap has created an unmet demand for a transportation option that is easier, more affordable, and more flexible than traditional rentals. Consumers who need a car for a short period often find limited or expensive choices, while car owners are looking for a safe and simple way to generate income from their unused vehicles. This is where the need arises for a trusted peer-to-peer platform that connects car owners with renters, providing a secure environment that promotes sustainable resource sharing and encourages collaborative consumption within the community.

- ✓ Objectives (Product Characteristics and Requirements):
  1. Develop a user-friendly mobile application for car sharing between individuals.
  2. Allow car owners to list their available vehicles with customizable availability times.
  3. Enable renters to browse, book, and pay securely for available cars.
  4. Integrate with Absher for user verification to ensure safety and trust.
  5. Include payment gateway for seamless transactions.
  6. Provide insurance coverage and rental agreement automation.
  7. Implement a rating and feedback system for both owners and renters.
  8. Promote sustainability by maximizing utilization of existing vehicles.

- ✓ Project end user:
  1. Vehicle Owners: Individuals who own a vehicle and wish to monetize it during periods of non-use
  2. Vehicle Renters: Individuals seeking temporary access to a vehicle for personal use

- ✓ Summary of Project Deliverables:
  1. Fully functional mobile app for-peer-to-peer-car sharing
  2. User authentication and safe verification system for both owners and renters.
  3. Vehicle listing & booking features (search, filter, availability calendar)
  4. Integrated payments and insurance services.
  5. Rating/review system to build trust
  6. Admin dashboard for monitoring and management
  7. Final prototype + documentation (design, implementation, testing)

- ✓ Project Success Criteria:
  1. Users can successfully list and book cars without major errors or issues.
  2. Secure login, identity verification through Absher, and payment processing work reliably and safely.
  3. The app achieves a satisfaction rate of 4 out of 5 or higher from both car owners and renters.
  4. Car owners can add and manage their cars easily, and renters can search, filter, and reserve cars smoothly.
  5. The system is stable and works without crashes or serious bugs during testing and demonstrations.
  6. The user interface is simple, easy to use, and responsive on different devices.
  7. All main tasks such as listing, booking, and payment can be completed in a few clear steps.
  8. A feedback and rating system allows users to review each other after every rental, and ratings update user profiles.
  9. The system passes all required tests including unit, integration, and user acceptance testing.
  10. A full rental process (from registration to booking and payment) can be completed and shown successfully.
  11. The project includes full documentation such as design, database structure, user manual, and testing report.
  12. The platform helps make better use of unused vehicles, supports shared mobility, and encourages trust between users.

✓ Solution Methodology:

1. Requirement Analysis: gather needs from car owners and renters.
2. System Design: prepare database schema, app workflow, and interface mockups.
3. Implementation: develop backend (APIs, authentication, payment) and frontend mobile app
4. Testing: functional usability, and security tests with real Users
5. Deployment & Evaluation: launch pilot version, monitor usage, and collect feedback

✓ Signatures of group members

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Date: ……..……

---------- **For instructor use only** ----------

Approved Not approved Date: …….

Comments: