FINAL YEAR PROJECT PROPOSAL

TravelConnect: Affordable delivery service

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Submitted By

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3. Executive Summary/Project Abstract

TravelConnect is redefining package delivery services in a fast-changing industry. Pakistani consumers struggle to find affordable and timely package delivery services, which inspired this innovative project. With the help of innovative solution, individuals would be able to send their parcels at very low cost and less time as compared to already established delivery services. Sender would select the date and destination, and travelers would be able to bid and accept the parcel to deliver on the destination while traveling. It will provide opportunity to the traveler to earn extra money while travelling.

4. Project Overview: Client/Organization

This section discusses the pre-TravelConnect scenario. TravelConnect targets Pakistani individuals, small businesses, and travelers. This groundbreaking project addresses current and future package delivery needs.

Client/Organization Introduction:

TravelConnect, an independent project, envisions a future where package delivery is efficient, affordable, and tailored to individual travel plans. The project considers the context of a developing country, such as Pakistan, where cost-effective and timely package delivery services are still difficult to access.

TravelConnect aims to boost economic growth and convenience for its target audience by providing a platform for diverse user needs.

Nature of Business:

TravelConnect is not limited to one client or organization. It positions itself as a service that senders, travelers, and small businesses may use. TravelConnect's business is connecting senders and travelers to deliver packages efficiently and cheaply.

Future Product:

TravelConnect is currently an independent project, but it could be adopted by a wider audience or integrated into existing business models. The platform can be scaled and become a market-ready product if a client or organisation adopts it. TravelConnect's adaptability makes it a long-term solution for package delivery services' changing landscape.

TravelConnect's background is forward-thinking to solve package delivery problems. The project lays the groundwork for efficient, affordable, and flexible package delivery for Pakistani individuals, small businesses, and travellers. TravelConnect's independence allows for future collaboration with organizations or clients.

5. The Issue or Project Origin

The TravelConnect project's inspiration and problems are discussed in this section. Understanding the project's origin and problem is essential to understanding TravelConnect's importance in package delivery.

Inspiration for the project:

Critical observation of traditional package delivery services' limitations and inefficiencies inspired TravelConnect. Traditional courier services are important, but TravelConnect aims to solve their problems. The project began with the realization that many Pakistanis struggle to find affordable and timely package delivery services.

Problem identified:

TravelConnect addresses the need for flexible, affordable, and fast package delivery. Traditional courier services are reliable but may have fixed delivery times and higher costs. Individuals, small businesses, and urgent delivery customers struggle with this limitation. The project uses travel plans to challenge this norm.

Key Issues:

1. Time Convenience: TCS and LCS typically take 24 hours to deliver packages. Instead, TravelConnect optimizes time by using only the designated traveler's time. A person travelling can easily pick up and deliver the package, reducing delivery time.

2. Cost savings: Traditional courier services charge a lot for package delivery. Senders looking to save money on delivery will like TravelConnect's low cost.

3. The Travel and Earn project offers travelers a great way to cut travel costs. Delivering packages while travelling can save travelers a lot of money, creating a mutually beneficial arrangement.

These problem statements highlight the need for a more efficient, cost-effective, and flexible package

delivery solution that matches travel plans.

Need for the Project:

The package delivery ecosystem's gaps and challenges make TravelConnect necessary. TravelConnect's disruptive model solves the problems identified and provides a more convenient, affordable, and timely alternative.

6. Project Description

Objectives of the project

The TravelConnect project will achieve several key goals, boosting its success and impact:

1. Learn Market Needs and Solutions: The project will actively study market dynamics, identify gaps, and propose innovative solutions. This goal keeps TravelConnect adapting to user needs and the package delivery landscape.

2. Identify and Describe Problems and Scope of Project: Traditional package delivery services' problems will be understood and the project's scope defined. Addressing challenges and keeping the project on track starts with this objective.

3. The project will use rigorous data collection and analysis methods to gain meaningful insights. Data-driven decision-making improves TravelConnect's efficiency and effectiveness.

4. Identify Basic Entrepreneur Skills in Project Management: Project management of TravelConnect will help team members develop entrepreneurial skills. This goal promotes project team well-roundedness in strategic planning and resource allocation.

5. Work together and ethically: TravelConnect relies on teamwork and ethics. This goal emphasises teamwork and ethical project management.

6. Marketing: Understanding and using effective marketing strategies is crucial. TravelConnect must be promoted to its target audience, raised awareness, and gained traction in the competitive market.

Initial Scope

A) Project Scope:

TravelConnect uses Agile project management to adapt to changing needs. Project phases and milestones are clearly defined, and each phase includes key project management deliverables. Iterative Agile allows for continuous improvement and refinement.

B) Product Scope:

A product scope is needed for a software-service project. The main TravelConnect features and deliverables are listed here:

1. The heart of TravelConnect, sender and traveler interfaces enable seamless communication. Travelers bid on packages posted by senders.

2. Transparent real-time package tracking lets senders and receivers track packages.

3. Bid Acceptance and Payment System: An integrated system that expedites and secures financial transactions.

4. A rating and review system that lets users rate and review each other improves platform reliability.

C) Hardware Product Scope:

TravelConnect primarily uses software, but senders and travellers' smartphones add a unique hardware element. Smartphones as the main interaction point make the platform more convenient and accessible.

The next interaction will detail the product scope, including a hierarchical breakdown of deliverables and TravelConnect's features and functions.

 D) Software Product Scope:

I. Products' Features:

1. Interfaces for senders and travellers

Sender Interface: Users can enter package details to save them in the database for travellers to bid on.

Traveller Interface: Users must enter travel information to view and bid on packages.

2. Live package tracking:

Senders and receivers can track the traveller and package in real time.

3. Bid Acceptance and Payment System:

After an accepted bid, the sender's account is charged and the order is placed. This system secures and streamlines financial transactions.

4. Rating and Review System:

- Essential for TravelConnect community trust. Senders and travelers can provide feedback to improve platform reliability.

II. Product Deliverables:

Product scope is divided into deliverable hierarchies:

1. Main Deliverable 1: Sender and Traveller App/Interfaces

Sub-Deliverable 1a—Sender Interface:

Service: Enter package details.

Output/Result: Travellers can view package details in the database.

Sub-Deliverable 1b: Traveller Interface

Service: Requests travel information.
Users can view and bid on packages.

2. Main Deliverable 2: Live Package Tracking

- Sub-Deliverable 2a: Real-time Tracking

- Service: Real-time tracking.

- Output/Outcome: Senders and receivers can track traveler and package locations.

3. Deliverable 3: Bid Acceptance and Payment System

Sub-Deliverable 3a: Bid Acceptance

- Senders can accept bids.

- Starts order process.

Sub-Deliverable 3b: Payment System

- Service: Secures financial transactions.

- End result: Secure and seamless payment process.

4. Main Deliverable 4: Rating and Review System

Sub-Deliverable 4a: Rating System

- Users can rate each other.

- Builds TravelConnect reputation.

Sub-Deliverable 4b: Review System

- Service: Allows detailed feedback.

- Output/Result: Platform reliability improves.

Hardware product scope:

Smartphones are TravelConnect's main hardware component, allowing senders and travelers to interact. To ensure accessibility and usability, the project uses smartphones' widespread availability.

7. Platform & Tech

Development Tools, OS, Hardware, Backend, Frontend, etc.

TravelConnect uses carefully selected platforms and technologies to integrate and operate its mobile app. The chosen tools cover development and operational infrastructure.

Tools for development:

1. Flutter Mobile App Development

- Platform: Flutter, a cross-platform development framework, is chosen to ensure a unified and consistent user experience across different devices and operating systems.

Reason: Flutter's single codebase for iOS and Android reduces development and maintenance time.

2. Database Management:Database System

- Platform: [Firebase, MySQL, MongoDB].

Selection of the database system depends on scalability, data structure requirements, and Flutter integration.

The OS is:

1. Mobile OS Compatibility:

TravelConnect works with iOS and Android to reach a wide audience.

The backend:

1. Server-side logic and data management:

Backend framework (Node.js, Django, Flask).

Reasoning: The backend framework is chosen based on its server-side logic, data management, and

Flutter frontend communication capabilities.

The frontend:

1. User Interface Design:
- UI/UX Design Tools: Adobe XD, Sketch, etc.

- Reason: These tools create intuitive and attractive user interfaces, ensuring a good experience.

- Unique hardware integration:

1. Smartphones:

Smartphones are the main hardware component and the interface for senders and travellers.

Using smartphones' widespread availability ensures user convenience and accessibility.

8. Uniqueness and Market Impact

1. Dynamic Package Delivery:
Differentiator: TravelConnect uses individual travel plans to deliver packages dynamically. Its flexibility

distinguishes it from fixed-delivery courier services.

2. Time-saving:
Travel time, not a delivery timeline, saves senders and travelers time.

3. Cost savings:
TravelConnect attracts cost-conscious senders with lower prices than traditional courier services, giving it

a competitive edge.

4. Opportunities for travelers:

TravelConnect's innovative model lets travelers earn money by delivering packages along their route.

5. Community Impact:

Local Economic Growth: The platform could create local jobs, boosting the economy and lowering unemployment.

Impact on Market:

1. Traditional courier services disrupted:

TravelConnect's cheaper and faster model may challenge traditional courier services.

2. Sustainable Environment:

TravelConnect's reduction in delivery vehicles supports environmental sustainability, making it a socially responsible choice.

3. Economic Chances:

Local Economic Impact: The project may boost local economies, giving people new income opportunities.

4. Approach focused on users:

TravelConnect's focus on convenience and affordability creates a positive and user-centric experience, increasing user satisfaction.

Comparison to Existing Products:

1. Differs from Traditional Courier Services:

Traditional courier services have fixed delivery times, but TravelConnect offers a more flexible and convenient model.

2. Competitive Cost:

TravelConnect's lower costs than traditional courier services make it a cheaper option for senders.

3. Traveler-Centered Model:

Unlike traditional models, TravelConnect's innovative approach allows travelers to earn while reducing travel expenses.

4. Community and Environmental Impact:

Positive Externalities: TravelConnect is a socially responsible market choice due to its potential benefits to local communities and the environment.

NO PLAGIARISM AND FAIR PLAY DECLARATION

We the group members of the FYP titled "Travel Connect.Affordable Delivery Service" understand the meaning and consequences of theact of plagiarism in academic works and we do solemnly declare and promise not to indulge ourselves directly or indirectly in any acts of plagiarism and/or use or misuse of any work done by other parties, or any activities that are considered miss-appropriate by the project advisers/supervisors and/or considered to be illegal by the regulations of any kind; unless of course permitted by our project adviser/supervisor that is within legal bounds and is/are deemed necessary by them.

Our project and product(s) are unique, bear quality and are not a repetition or copy of any previous project(s).We declare that we will produce work that is genuine, innovative and reflective of all the study that we had as the students of university of south Asia.

We promise to follow the schedule during which we shall seek feedback and maintain a liaison with our adviser. We understand that any foul-play or infringement on our part will result in the cancellation of our project and possibly other penalties may be imposed upon us.

Our project efforts and the end-product are safe, harmless and helpful to humans and society.

We are signing this oath, all on a single page and will get it signed by our adviser. After that we shall get it signed from the projects convener and the HOD CS department.

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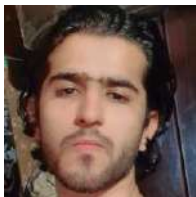2. B-23062   Zikrya Ul Haq   Signature: _____
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