



Project Proposal - CSE 416

Project Title : Centralized Money Exchange Platform (ExchangeWise)

Group Members :

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Introduction

We have chosen this project because it addresses a real-life problem. In Bangladesh, many people such as **expats, students, and freelancers** often look for a secure and fast digital service to check the **current exchange rate**, but such services are currently very limited.

As a result, they suffer a lot due to unreliable sources and lack of proper platforms.

Through this software, we provide **real-time exchange rates of Banks, nearby trusted brokers, and a necessary support.**



Objectives

1. To integrate real-time exchange rate APIs for **accurate and up-to-date conversion** values.
2. To develop a digital platform that allows users to convert Bangladeshi Taka to US Dollar with real-time exchange rates vice versa.
3. To **reduce dependency** on manual money exchange and provide a trusted, traceable, and convenient alternative.
4. To help users find **nearby agency/bank** based on their current location using GPS and mapping services.



Tools and Languages

- **Frontend:** HTML, CSS, JavaScript, Bootstrap.
- **Backend:** PHP or Python
- **Database:** MySQL
- **APIs:** Live exchange rate APIs
- **Development:** Vs code



Related Works

Xe.com

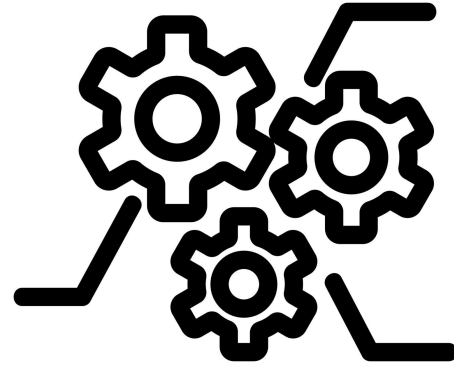
- Shows live exchange rates for all currencies.
- Also offers a currency converter, charts, and historical data.
- Source: Interbank rates (not always the same as bank rates).

OANDA

- Popular for Forex traders.
- Provides real-time exchange rates and APIs for integration.
- Offers bank-rate comparisons in premium versions.

Features

- Real-Time Currency Exchange Rate
- Nearby Bank Locator
- Currency Rate Prediction
- Secure Login and OTP Verification
- Rate History Tracking
- Multi-language Support



Users

- Students Going Abroad
- Families of Expatriates / Expats
- Tourists
- Freelancers & Remote Workers
- Foreigners



SDLC

In this project, we have selected **Agile SDLC Model**.

Why Agile?

- **Dynamic Requirements:** Exchange rate APIs, UI design, bank sources may change or evolve during development.
- **Incremental Delivery:** We can first launch with a few banks or currencies, then gradually add more.
- **Frequent Updates:** Exchange rate systems often need constant bug fixes or data source updates.
- **User Feedback Loop:** Users may want features like graph history, alerts, or comparison charts – Agile lets adapt easily.