**NETAJI SUBHAS UNIVERSITY**



**COUPON TRADING WEBSITE**

BY

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**Under the guidance of**

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DEPTARTMENT: IT DEPARTMENT

**COUPAN TRADING WEBSITE**

**OBJECTIVES**

   The main objective of this project is to develop a Dynamic Coupon Trading Platform, where a customer can buy and sell Coupons when needed. The platform is designed to revolutionize the way individuals interact in order to buy or sell coupons. The system will also display the coupon image and other details like offered price, category and validity.

The users will also be acknowledged with home page which includes what the platform is about, login page (where the user can Sign in or Sign Up) and a trading page (where a user can sell or buy their coupon).

The platform will also help the customer to make money by selling unused coupon and in other hand, it will help the users to purchase coupon according to their requirement.

**SOFTWARE REQUIREMENT SPECIFICATION (SRS)**

**INTRODUCTION**

Purpose: The main purpose for preparing this document is to give a general insight into the analysis and requirements of the existing system or situation and for determining the operating characteristics of the system.

Scope: This Document plays a vital role in the development life cycle (SDLC) as it describes the complete requirement of the system. It is meant for use by the developers and will be the basic during testing phase. Any changes made to the requirements in the future will have to go through formal change approval process.

**DEVELOPERS RESPONSIBILITIES OVERVIEW**:

**The developer is responsible for:**

1. Developing the system, which meets the SRS and solving all the requirements of the system?
2. Demonstrating the system and installing the system at client's location after the acceptance testing is successful.
3. Submitting the required user manual describing the system interfaces to work on it and also the documents of the system.
4. Conducting any user training that might be needed for using the system.
5. Maintaining the system for a period of one year after installation.

Functional Requirements is the specification of the function that the system must support. Whereas non-functional requirements are the constraint on the operation of the system that is not related directly to function of system.

**SCOPE**

COUPONDEAL will include features for user authentication, coupon listings, secure transactions, real-time updates, feedback/ratings, and community engagement.

**FUNCTIONAL REQUIREMENTS**:

* **User Authentication**

Users shall be able to create accounts, log in, and log out securely. User authentication shall be implemented using Firebase authentication services.

* **User Profiles**

Users shall have personalized profiles where they can view and manage their account information. Profile information shall include username, email, profile picture, and transaction history.

* **Coupon Listings**

Sellers shall be able to list coupons for sale, specifying details such as coupon value, discount percentage, expiry date, and terms/conditions.

Buyers shall be able to browse through coupon listings, filter by categories and discounts, and view detailed descriptions of coupons.

* **Secure Transactions**

Coupon transactions shall be conducted securely through encrypted payment gateways. Users shall have options to make payments via credit/debit cards, PayPal, or other supported payment methods.

* **Real-time Updates**

Users shall receive real-time notifications for new listings, offers, and transaction updates. Notification delivery shall be implemented using Firebase Cloud Messaging for instant updates.

* **Feedback and Ratings**

Users shall be able to provide feedback and ratings for completed transactions. Feedback/ratings shall be visible on user profiles to maintain transparency and trust within the community.

**REQUIRED HARDWARE:**

The platform shall be accessible from devices with internet connectivity, including desktops, laptops, tablets, and smartphones.

Minimum system requirements for device compatibility shall be specified (e.g., supported browsers, screen resolutions).

4.2 Software Requirements

**REQUIRED SOFTWARE SERVER SIDE:**

The platform shall be compatible with modern web browsers (e.g., Google Chrome, Mozilla Firefox, Safari).

Support for responsive design shall ensure optimal viewing experience across different screen sizes and resolutions.

**TOOLS & TECHNOLOGIES**

1. **Frontend**

**React JS -** React is a JavaScript library created by Facebook. It is a User

Interface (UI) library. React is a tool for building UI components.

**Tailwind CSS -** Tailwind CSS is a utility-first CSS framework that

streamlines web development by providing a set of pre

designed utility classes.

1. **Backend**

**Node JS -** Node JS is used for server-side programming, and primarily deployed

for non-blocking, event-driven servers, such as traditional web sites and back-end API services, but was originally designed with real-time, push-based architectures in mind. Every browser has its own version of a JS engine, and node.

1. **Database & Hosting**

**Google Firebase -** The Firebase Realtime Database is a cloud-hosted NoSQL

database that lets organizations store and sync data in real time across all of their users' devices. This makes it easy to build apps that are always up to date, even when users are offline.

**Google Firebase -** Firebase Hosting is a fully-managed hosting service for

static and dynamic content as well as microservices. The service is backed by SSD storage and a global CDN (content delivery network).

**ROLES & RESPONSIBLITIES**

**TEAM MEMBERS**



**Baishnavi**

BCA

Responsibilities:

Designing User Interface, Management of Documentation and Frontend Development

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**Sidhanta Basa**

BCA

Responsibilities:

User Interface, Frontend Development, Database Connectivity

**Umesh Mahato**

BCA

Responsibilities:

Frontend Development, Managing Database, Database Connectivity, Backend Development

**DESIGN DOCUMENT**

**DFD**

USER

LOGIN

HOMEPAGE

SELL PAGE

PURCHASE PAGE

PORTFOLIO

LIST ITEM

UPLOAD COUPON

CATEGORIES

BUY

FEEDBACK

PAYMENT GATEWAY

* Title of the project
* Intro
* Abstract
* Objective
* Scope
* Modules
* Input data & validation
* Features
* SRS
* UI
* Project category
* Implementation & methodology
* Tools & platform
* Futures
* Limitations