Project Brief

Project ID: <mark>Sem1_2023_01</mark>
Project Title: Chatbot for Medical Advice
Client: Pristine Softsol

Project Overview:

Pristine Softsol is an outsourcing software development company based in India who is looking to develop a chatbot that can provide medical advice to users based on their symptoms and medical history. The chatbot should have the following features:

- Users will need to register with the chatbot and create a profile that includes their personal information, medical history, and any ongoing treatments or medication.
- A symptom checker feature where users can input their symptoms, and the chatbot will provide a list of potential medical conditions based on the input.
- Based on the user's symptoms and medical history, the chatbot will provide medical advice and recommend the next steps the user should take. This could include self-care advice or referral to a medical professional.
- Reminder notifications for follow up on their medical appointments.
- The chatbot can provide emergency medical assistance by giving instructions on what to do in case of an emergency.

Note: NDA is required.

Project Deliverables include:
- Business Plan
- Software Requirements Specifications (SRS)
- Market research & comparative analysis
- Final product including source code files
- User & Installation Manuals
- Product Test summary report (Includes test cases and conditions)
- A guide for future developers
- Handover Document

Project Brief

Project ID: <mark>Sem1_2023_02</mark>
Project Title: eCommerce store for Web Development Services/Products
Client: Pristine Softsol

Project Overview:

Pristine Softsol is an outsourcing software development company based in India who is looking for a complete end-end eCommerce store capable of selling web related products/services like landing pages, web pages etc. as standalone products as well as various packages with the option of choosing the no. of pages, type of platform/technology and add-on extras, etc. for the customer. We need the team to conduct a feasible study, requirement analysis and document a function requirement specification before initiating the development / build phase.

The central idea of the project is to have an ability for the admin to maintain the database with various options and templates for individual web pages / landing pages. The end user will be able to browse through the catalogue, select individual products or packages and various options available, build their own virtual website before checking out with payment and shipment details. The shipment calculator will be based on the urgency of delivery due dates. The product spreadsheet will be provided by Pristine Softsol. The team is expected to build the store, integrate with payment gateway, and design the database with the central repository of all the product templates and their configurations. The other aspect of this project is to collaborate with companies like "Template Monster", "Theme Forest" or "Shopify" and integrate their database with our website either pulling the data live or storing on cloud and be able to access as required by running the periodical CRON jobs. This website must be responsive on desktop, tablet, and mobile devices. We may also expand to develop the mobile application based on the deliverables achieved.

Note: NDA is required.

Project Deliverables include:
- Business Plan
- Software Requirements Specifications (SRS)
- Market research & comparative analysis
- Final product including source code files
- User & Installation Manuals
- Product Test summary report (Includes test cases and conditions)
- A guide for future developers

Project Brief

Project ID: <mark>Sem1_2023_03</mark>
Project Title: Web based Learning Management System (LMS)
Client: Pristine Softsol

Project Overview:

Pristine Softsol is looking to develop a web-based learning management system (LMS) with a range of features including real-time collaboration, gamification, and personalized learning paths. The LMS will be designed to cater to the needs of students, educators, and institutions who seek a user-friendly platform to enhance learning experiences.

To achieve this, the project team will start by designing the user interface and wireframes, considering user experience and accessibility. The team will also create a database schema and design to store and manage user data, course content, and other relevant information. The LMS will implement user authentication and authorization to ensure that only authorized users have access to sensitive information.

The real-time collaboration feature will enable users to engage in live discussions, online meetings, and group projects.
Gamification features will be incorporated, such as badges and leaderboards, to motivate learners to achieve their learning goals. The personalized learning path will be based on machine learning algorithms that suggest courses and resources based on the user's interests, learning preferences, and past performance.

Overall, the web based LMS will be a robust platform that caters to the diverse needs of learners and educators. The project will follow an agile development approach, with regular communication and feedback from stakeholders to ensure a successful outcome.

Note: NDA is required.

Project Deliverables include:
- Business Plan
- Software Requirements Specifications (SRS)
- Market research & comparative analysis
- Final product including source code files
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- Handover Document

Project Brief

Project ID: <mark>Sem1_2023_04</mark>
Project Title: Social Signals on social media
Client: BreederDAO

Project Overview:

BreederDAO is a blockchain start-up focused on breeding, crafting, and creating the best play-to-earn digital assets in the metaverse. It is a metaverse factory that builds digital assets for video game guilds.

We are looking to build a web application as part of our NFT collection system. The web application will use different social media platforms like Twitter, Discord, Instagram, etc to indicate the popularity of a search word. This search will indicate the score of each word based on its popularity and frequency of usage.

The web application should be able to record all the data in a database and be able to apply basic DB actions to retrieve the results.

Project Deliverables include:
- Business Plan
- Software Requirements Specifications (SRS)
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Project Brief

Project ID: <mark>Sem1_2023_05</mark>
Project Title: Loan Repayments Calculator
Client: First Circle

Project Overview:

First Circle is a FinTech start-up located in Manila. First Circle's mission is to unlock success for SMEs through fast, fair and flexible financing. First Circle builds a host of tools in house to support customers as well as internal operations. As part of our new payments project, First Circle needs a Loan repayments calculator system.

The Loan Repayments Calculator is a software system that can be used to calculate loan repayments for a given loan amount, interest rate, and repayment period. The application will allow users to input their loan details and calculate the monthly repayment amount, total interest, and total amount repayable.

Project Requirements:3

- Develop a user-friendly interface to input loan details.
- Implement a backend system to perform loan repayment calculations.
- Integrate a user notification system to alert users on loan repayments.
- Implement additional features such as graphical representation of the loan repayment.

The Loan Repayments Calculator should be able to be used for different types of loans, including personal loans, car loans, and mortgages.

Project Deliverables include:
- Business Plan
- Software Requirements Specifications (SRS)
- Market research & comparative analysis
- Final product including source code files
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Project Brief

Project ID: <mark>Sem1_2023_06</mark>
Project Title: Cheque Verification Application
Client: First Circle

Project Overview:

First Circle is a FinTech start-up located in Manila. First Circle's mission is to unlock success for SMEs through fast, fair and flexible financing. First Circle builds a host of tools in house to support customers as well as internal operations. As part of our new payments project, First Circle needs a Cheque verification application.

The Cheque Verification Application can be used to verify the authenticity of cheques. The application will allow users to scan a cheque and retrieve the relevant information from it, including the cheque number, account number, bank name, and other key details. The application will then perform a series of checks to determine whether the cheque is genuine or not, including checking the signature, the amount, and the date.

Project Requirements:

- Develop a user-friendly interface to scan and capture cheque information.
- Implement a backend system to validate the captured information.
- Integrate an algorithm to check the authenticity of the cheque.
- Implement additional features such as email alerts, transaction history, and reports.

Project Deliverables include:
- Business Plan
- Software Requirements Specifications (SRS)
- Market research & comparative analysis
- Final product including source code files
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Project Brief

Project ID: <mark>Sem1_2023_07</mark>
Project Title: Intelligent Traffic Management System
Client: ExpressVPN

Project Overview:

ExpressVPN is looking to develop an intelligent traffic management system that uses technology to manage and control traffic flow in a city to reduce traffic congestion and improve the overall traffic efficiency.

Following key features need to be included:

- Traffic Monitoring:
  - The system will use sensors and cameras to monitor traffic flow in real-time, providing data on traffic volume, speed, and congestion.
- Traffic Prediction:
  - Using data analytics and machine learning algorithms, the system will predict traffic patterns and adjust traffic signals and routes to reduce traffic congestion.
- Traffic Signal Management:
  - The system will use intelligent traffic signal control to dynamically adjust traffic signals to optimize traffic flow, reducing wait times at intersections and improving the overall traffic efficiency.
- Emergency Services Integration:
  - The system will integrate with emergency services to prioritize emergency vehicles and provide emergency service vehicles with real-time traffic data to reach their destination faster.
- Mobile Application:
  - The system will have a mobile application for users to access real-time traffic information, including traffic congestion, estimated travel time, and recommended routes.

Project Deliverables include:

- Business Plan
- Software Requirements Specifications (SRS)
- Market research & comparative analysis
- Final product including source code files
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• Handover Document

Project Brief

Project ID: <mark>Sem1_2023_08</mark>
Project Title: Bike Rental Management System – iOS + Android App
Client: Hire Bikes

Project Overview:

Hire Bikes is a Mobility as a service (MaaS) based company trying to organise the unorganised two wheeler rental sector in India by providing a unified platform which enables customers to enjoy hassle free and trusted renting. We aim to fill the void in the transportation sector in India by providing affordable independent transportation to those who are dependent on cabs, autos & metros for their everyday commute by renting bikes on hourly, daily and monthly basis. We provide a platform for vendors/partners to list their fleet on our platform. We are a zero-asset model and believe that since the asset is already available with owners, we get them to earn a little extra income. We also plan to step into the tourism sector by offering tourists an intimate experience of the culture and heritage of a destination on a two wheeler. In past few months, we have organised various bike tours to various places like Ladakh, Spiti and Bhutan.

The company requires an application (both iOS and Android) using which any customer can book a two-wheeler on rent for hourly, daily, weekly and monthly basis. Users should be allowed to:- 1. Sign in/ Sign up 2. Select the city, start and end date of rental 3. Explore bikes and proceed to cart. 4. Online payment 5. See the past orders 6. Cancel and extend the booking. A web based Admin Dashboard is required to manage the backend operations.

Project Deliverables include:
- • Business Plan
- • Software Requirements Specifications (SRS)
- • Market research & comparative analysis
- • Final product including source code files
- • User & Installation Manuals
- • Product Test summary report (Includes test cases and conditions)
- • A guide for future developers
- • Handover Document

Project Brief

Project ID: <mark>Sem1_2023_09</mark>
Project Title: Security Management System + Admin Dashboard
Client: Pristine Softsol

Project Overview:

The company started providing services in different areas of Information Technology as well as in Import & Export Services. We, offer customized solutions to help business's steer through that landscape and let your business expand, flourish and make its mark in this IT universe. We are specialized in providing comprehensive web & software solutions.

Highly intuitive designs is our forte and our services varies from web solutions, web & graphic design, eCommerce, Content Management Systems(CMS), Real estate, Survey, Social Networking, Facebook Applications, Customer Relationship Management Systems(CRM), software applications, SEO/SEM/PPC, Flash & Flex development, Networking and Human Resource Management Systems(HRMS) Solutions.

The project is about developing a universal security management system that could be used in security industry, especially those providing patrolling services. The system should include these components:

Features:
- HR Module (Job Ad, Job Applications, Short Listed Candidates, Induction etc.)
- Clients information Module
- Pay Roll Module
- Roster Management
- Calendar Scheduling
- Shift Management
- Availability
- Time Sheets
- Uniform Codes for client sites
- Employee login section (Different Roles)
- GPS Location Data (Patrolling Guards Wand Points Creation etc. automatically pick up)
- Emergency Alert Section
- Installed Camera's Live Footages and incident capturing.

Project Deliverables include:
- Business Plan
- Software Requirements Specifications (SRS)
- Market research & comparative analysis
- Final product including source code files
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