PROJECT SYNOPSIS

**On**

**AI BROWSY**

**Towards Partial Fulfilment of the Requirement**

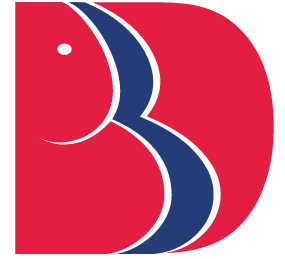
**for the Award of Degree of**

**Bachelor of Computer Application**

**From**

**Babu Banarasi Das University**

**Lucknow**



**Academic Session 2022 – 2023**

**School of Computer Applications**

**Submitted By:** **Under Guidance Of:**

Rajtilak Yadav Mohammad Mubassir

1210211124

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**School of Computer Applications**

**BBBU**

**TRAINING DETAILS PROFORMA**

**(To be filled by Student)**

**Type of Training:** Six month’s Project Training

**Course:** BCA **Section:** 31 **Semester:** 6th (Final Year) **Batch:** 2023-2024

**University Roll Number:** 1210211124

**Name of the Student: Rajtilak Yadav**

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**Company’s Details:**

**Name of Company :** Digipodium

**Address of Company :** Lower Ground Floor, Rajaram Kumar Plaza, Hazratganj,

Lucknow -226001

**Mobile No. :** 9415082377 **E-Mail :** asit@digipodium.com

**Name of Project Guide :** Mohammad Mubassir

**Designation :** Trainer

**Mobile No :** 9140491739  **E-Mail :** triplem656@gmail.com

**Date of Joining :** 04 Jan 2024 **Expected Date of Completion :** 18 May 2023

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**Project’s Details:**

**Title of the Project:** AI Browsy – In Browser AI Model Trainer

**Tools Used:**

**Front End Tools:** HTML, CSS, React, JavaScript.

**Back End Tools:** Node JS, Express JS, MongoDB.

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**Date:** ………………………………  **…………………………………… Signature of the Student**

**Enclosure:**

Synopsis of the Project (on Separate Sheet)

PROJECT SYNOPS

**TUSSEL**

**Introduction:**

The aim of competitive programming is to write source code of computer programs which are able to solve given problems. A vast majority of problems appearing in programming contests are mathematical or logical in nature. Typical such tasks belong to one of the following categories: combinatorics, number theory, graph theory, algorithmic game theory, computational geometry, string analysis and data structures. Problems related to constraint programming and artificial intelligence are also popular in certain competitions.

Today in the World of Technology-A Digital World. Coding competition are vastly conduct in many places such as Schools, Colleges, Companies, Institutions, etc., for many purposes such as hiring, hack quest, hackathon, etc.

AI BROWSY

**Problem Statement:**

* Limited access to materials, tools, and workspace poses a significant barrier to entry for aspiring DIYers, particularly those with financial constraints or limited physical resources.
* However, many people face challenges like not knowing how to start, not having the right tools or materials, or feeling unsure about their abilities. This will be easier and more accessible for everyone, so people can feel confident and empowered to bring their ideas to life.

**Introduction:**

* Many DIY enthusiasts face a common challenge when attempting to recreate projects from online videos. Often, they encounter difficulties in finding the specific materials or tools showcased in the DIY tutorials. This hurdle not only obstructs the excitement of creating something new but also causes frustration as individuals struggle to source the necessary items.
* DIY Innovate is an online store, where creativity is the star! We have everything you need for fun projects, like making cards, showpieces, photo frames, gift hampers. You can not only buy the kits to make things but also watch helpful videos to guide you through the process. Imagine searching for a specific craft, such as card making, and not only discovering the essential product kits but also having access to step-by-step video guides for each project. Our website is designed with your convenience in mind. You can instantly connect with us through our online chat system for any assistance you may need. And buying is super easy and safe with our online payment system.

**Objective:**

* **Provide a diverse project range:** Offer a wide variety of product kits catering to different crafts and hobbies to attract a broad audience.
* **Integrate video tutorials:** Implement a video functionality that seamlessly integrates tutorials for each product, enhancing the user's understanding and engagement.
* **Enable Online Chat Support:** Facilitate real-time communication through an online chat system to assist customers with queries, guidance, and support.
* **Eco-Friendly Shopping:** A space where customers can effortlessly discover and buy environmentally friendly items, encouraging a lifestyle that supports the well-being of our planet.
* **Secure Payment Gateway :** Implement a secure payment gateway to facilitate smooth and safe transactions for customers.

**Scope:**

* **User Experience:** Responsive design for various devices, efficient search and filtering, reviews and ratings for products.
* **Product Catalog:** Curate and showcase a diverse range of product kits for various crafts and hobbies.
* **Support and communication:** Online chat system for customer support.
* **Video Functionality:** Implement a video feature to provide step-by-step tutorials for each product, enhancing user engagement and understanding.
* **Reviews and Ratings:** Allow customers to leave reviews and ratings for products.
* **Product Categories:** Categorize products for convenient browsing, such as home decor, kitchenware, and garden items.
* **Resources (Hardware & Software) to be used:**

1. **Hardware Requirements**

* **Client Side**

|  |  |
| --- | --- |
| Processor | Dual Core or above |
| RAM | 8 GB |
| Disk space | 256 GB (SSD) |
| Monitor | Desktop/laptop/ tab/ mobile |
| Network  Other | Internet Connection  Keyboard/mouse |

* **Developer Side**

|  |  |
| --- | --- |
| Processor | Quad Core or above (2 GHz or more) |
| RAM | 8 GB or above |
| Disk space | 500 GB (SSD) |
| Monitor | Desktop/Laptop |
| Network | Internet Connection |
|  |  |

1. **Software Requirements**

* **Client Side**
* Web Browser (Google Chrome, Firefox, Microsoft Edge, Apple Safari or above)
* **Developer Side**
* Web Browser (Google Chrome, Firefox, Microsoft Edge, Apple Safari)
* Node JS 20 or above
* Vs code
* Frontend Framework – React 18
* Backend Framework – Express JS
* Database - MongoDB
* **Project Schedule Plan:**

The objective of Software Planning is to provide a framework that enables the manager to make reasonable estimates of resources, cost, and schedule. These estimates are made within a limited time frame at the beginning of a software project and should be updated regularly as the project progresses. In addition, estimates should attempt to define best case and worst-case scenario so that project outcomes can be bounded.

* **Gantt Chart:**

A Gantt chart is popular type of chart that illustrates a project schedule. Gantt Chart illustrates the start and finish dates of the terminal elements and summary elements of a project. Terminal element and summary comprise the work breakdown structure of the project.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Task** | **25jan-25Feb** | **26Feb-7Mar** | **7Mar-6Apr** | **5Apr-10May** | **11may-16may** | **17may-19may** |
| **Develop project proposal** | 31 days |  |  |  |  |  |
| **Analysis** |  | 10 days |  |  |  |  |
| **Designing** |  |  | 30 days |  |  |  |
| **Coding** |  |  |  | 33days |  |  |
| **Unit Testing** |  |  |  |  | 5 days |  |
| **Implementation** |  |  |  |  |  | 3 days |

Gantt Chart

* **Project Team:**

**Instructor :** Mohammad Mubassir

**Mentor :** Mr. Sarfaraz Alam

**Project Team Members :** Rajtilak Yadav**,** Aakarsh Chaurasia

* **Process Description:**

1. **Authentication System:** Authentication system acts like a special key (username and password) to ensure only authorized users can access our crafting website, providing a secure and personalized experience.
2. **DIY Package Manager:** DIY Package manager is about empowering users to seamlessly manage and install software packages for their innovative projects.
3. **Cart System:** Cart system is an online feature that allows users to add, manage, and organize selected items before proceeding to checkout in an e-commerce platform, making the shopping experience more convenient.
4. **Video Streaming system:** Video streaming system is a platform or service that enables the delivery and playback of videos over the internet, allowing users to watch content in real-time without the need for downloading.
5. **Package Searching System:** Package searching system is a feature that allows users to search and find specific packages or items within a system or platform, enhancing efficiency and user experience in locating desired products or information.
6. **Review and Rating System:** Review and rating system is a feature that allows users to share their feedback and rate products or services, providing valuable insights for other users and influencing purchasing decisions.
7. **Payment Gateway:** Payment gateway handles the transfer of payment data between customers and e-commerce websites online, ensuring safe and seamless transactions.
8. **Ordering System:** Ordering system is an online mechanism that enables users to place requests for products or services, facilitating a structured process for businesses to manage and fulfill customer orders.
9. **Animation Handler:** Animation handler is a system that manages and controls the display and behavior of animations in software or web applications, enhancing the visual experience for users.
10. **User Dashboard:** User dashboard is a personalized interface for individual users, presenting key information, settings, and features in a centralized

* **Contribution of the student in the project:**

1. **Milan Rathour:**  Authentication System, Algorithm Selection System, Dataset Loading System, Model Training System, Model Accuracy Tracker
2. **Nilesh Singh:** Model Handler, User Dashboard, Feedback System, Configuration System, Model Loading System

* **Conclusion:**