GURU NANAK DEV ENGINEERING COLLEGE
COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

Reference No   CSE/43/770

Date:09-10-2023

Major Project (PRCS-103)

S.No.	Group No.	Uni. Roll No.	Section	Name of Student	Project Guide	Title of the Project	Objectives
1		2004540	A	Anmol Mittal			1. To develop a user-friendly emulator for the MOS 6502 processor, ensuring compatibility with a wide range of software and systems.
2	G1	2004586	A	Harsh Verma	Dr. Parminder Singh	Emulating MOS 6502 for Vintage Computing	2. To implement tools for real time debugging of assembly programs.
3		2004670	C	Sneha			3. To expand the emulator's capabilities to run Nintendo NES games, broadening its utility and appeal.
4		2004529	A	Abhishek Chaudhary			1. To create a centralized and organized repository for storing students' skill information 2. To develop the user interface for seamless interaction with students and faculties.
5	G2	2004550	A	Aarshpreet Singh	Pf. Amanpreet Singh Brar	Student Skill Management System	3. Implementation of the smooth integration of students' skill repository with user interface.
6		2004533	A	Akansh Jain			1. To provide a platform for users to practice and improve their interview skills.
7	G3	2004555	A	Avdhesh Kumar	Dr. Kiran Jyoti	Mock Interview Platform	2. To create a use interface for mock interview platform. 3. To host the mock interview platform on vercel and netlify.
8		2004534	A	Akhil Kalsi			1. To Recognize the user using face identification method 2. To use voice command to run system softwares and open websites
9	G4	2004587	A	Harshpreet Kaur gill	Dr. Vivek Thapar	Virtual Desktop Assistant	3. To be able to scrape the data from wikipedia 4. To send e-mails to contacts using voice command
10		2004539	A	Ankush Kaur			1. To develop an application that operates on a blockchain platform, eliminating the need for centralized intermediaries and to enhance transparency and security. 2. To enable the users to view their wallet balances, initiate transactions, and interact with smart contracts through the MetaMask integration.
11	G5	2004563	A	Gagandeep Kaur	Dr. Amit Jain	E-Money Flow Control using blockchain	3. To generate a transaction history with time and date user wise.

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12	G6	2004543	A	Anudeep Kaur	Dr. Daljit Singh	Comprehensive Person Profile based Attendance System	1. To make an effective and comprehensive person profile for individuals. 2. To develop facial recognition to provide details of a person from training dataset. 3. To generate an attendance system with facial recognition.
13		2004548	A	Arpit Singh			
14	G7	2004556	A	Avneet Kaur	Pf. Shailja	Hybrid Steganography Technique	1. To implement and analyze traditional, CNN , GAN steganography techniques for hiding text within images 2. To propose and implement a hybrid technique of steganography 3. To analyze the security and robustness of the propsed steganographic techniques
15		2004558	A	Devanshi Singh			
16		2004568	A	Geetanjali Sharma			
17	G8	2004559	A	Dilpreet Kaur	Pf. Jaswant Singh	Code-Sync: Realtime Code Editor With Compiler	1. To develop a realtime code editor to write, edit and debug code efficiently. 2. To integrate compiler to develop the coding environment. 3. To enable remote working environment with seamless communication regardless of physical location.
18		2004562	A	Dupesh Malhan			
19	G9	2004573	A	Gurnoor Singh	Pf. Supreet Kaur	GNEconnect:A social Networking site for GNE students	1. To enable users will to create their own online profile and share photos, videos and thoughts. 2. To provide platform to connect with each through messaging or react on each others post. 3. To keep track and restrict abusive or irrelevant content.
20		2004580	A	Hargunpal Singh			
21	G10	2004592	B	Ishleen Kaur	Pf. Kuljit Kaur	Automated Bone Fracture Detection	1. To minimize the occurrence of missed fractures, even those that may be subtle or complex, by using locally collected data. 2. To develop a robust deep learning model to classify the fractured and un-fractured bone using X-ray images. 3. To implement an automated system that can streamline the process of feature detection, reducing the reliance on manual inspection by healthcare professionals.
22		2004593	B	Ishwinder Kaur			
23	G11	2004597	B	Jaspreet Kaur	Dr. Amandeep Kaur Sohal	VOYAGEASE : YOUR AI TRAVEL COMPANION	1. Develop web based application including user registration, login and basic itinerary. 2. Implement advanced features like interactive maps and personalised reminders using OPENAI integration 3. Ensure reliability and user-friendliness of VoyageEase platform through comprehensive testing, while also integrating feedback mechanisms.
24		2004624	B	Mehak Kalia			
25		2004625	B	Mehakpreet Kaur Bhatia			

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26	G12	2004598	B	Jaspreet Singh	Pf. Priti Aggarwal	Eventify	1. To provide a platform where user can get their certificate for a registered event after attending the event. 2. To provide platform where user profile is maintained and user can get all the records of a participated events and access the event certificate also. 3. To provide a platform where user can get all the information regarding the societies such as number of events organised by the society through pie chart or bar graph.
27		2004604	B	Kamalpreet Singh			
28		2004612	B	Khushi Aggarwal			
29	G13	2004602	B	Jasreet Kaur	Dr. Parminder Singh	Web portal for Minor and Honor Engineering degree record	1. To develop a web portal that will enable students to enroll for MOOC courses offered by NPTEL for Minor and Honour engineering degree and to update their profile regarding earned credits along with proofs. 2. To enable Minor engineering degree students to enroll in subjects offered for classroom teaching and update their results from time to time. 3. To provide central access to department coordinator to monitor and manage enrolled students for Honour and minor engineering degree registered in the department.
30		2004603	B	Jobanpreet Singh			
31	G14	2004608	B	Karandeep Singh	Pf. Amanpreet Singh Brar	OBJECT DETECTION AND DIMENSION ASSESSMENT	1. To develop a system, capable of effectively identifying objects within images or frames. 2. To implement a robust mechanism for accurately measuring the dimensions of detected objects. 3. To improve the overall accuracy of object detection and dimension measurement processes.
32		2004620	B	Manav Loona			
33		2004622	B	Manjot Singh Bhatia			
34	G15	2004628	B	Muskandeep Kaur	Pf. Jasbir Singh Saini	Face Recognition Attendance system	1. To detect and recognise faces using another model and algorithm 2. To add anti spoof feature 3. To make web application interface and add attendance according to the course
35		2004640	B	Prabhdeep Kaur			
36	G16	2004614	B	Komal Sharma	Dr. Vivek Thapar	INTELLICOURSE	1. To develop an AI-Powered Course Generation Platfrom. 2. To create a user-friendly and secure web app for the proposed Course Generation Platform. 3. To enable a platform for auto generation of questions.
37		2004666	C	Simran			
38		2004675	C	Sukhpreet Kaur			

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39	G17	2004618	B	Luxmi	Pf. Gurjit Kaur	Vibe Talk- Android based instant messaging application using firebase.	1. Enhance communication security by implementing robust end to end encryption. 2. Enable users to effortlessly create manage and participate in group chats. 3. Integrate high quality video calling functionality allowing users to engage in face to face conversation.
40		2004627	B	Muskan Saini			
41	G18	2004621	B	Manjot Kaur	Pf. Manpreet Kaur Mand	Smart waste segregation system	1. To design smart waste segregation system 2. To segregate the waste into right bins automatically 3. To detect when bins are about to full and notify administrator to reempty the bins.
42		2104230	C	Sarbjeet Kaur			
43		2004688	C	Yakshi Puri			
44	G19	2004617	B	Lakshay Jain	Pf. Kamaldeep Kaur	Speaker Diarization	1. To achieve precise audio segmentation for the purpose of separating speech from different speakers within the audio recording. 2. To cluster and label each utterance within the audio with a high level of accuracy. 3. To make gender predictions for the speakers who have been identified in the audio. 4. To develop a user-friendly interface for the project to enhance ease of use and accessibility.
45		2004629	B	Naman goyal			
46		2004669	C	Smily Garg			
47	G20	2004630	B	Nidhi	Dr. Inderjit Singh	Flower Leaf Disease Diagnosis using Deep Learning	1. To collect and prepare the image dataset of different kinds of flower leaves. 2. To develop and train a CNN model for detection of potential diseases of flower leaves. 3. To design interactive user interface having a framework to generate diagnosis report with possible solutions.
48		2004639	B	Pooja Bhardwaj			
49		2004641	B	Prachi Devi			
50	G21	2004631	B	Nimish Budhiraja	Pf. Manpreet Kaur Mand	Olympify:Data Analysis Hub	1. To design and develop a user-friendly website for Olympify. 2. To create a data analysis system to analyze historical data in terms of different parameters. 3. To create and integrate a Chabot into the website to assist users.
51		2004646	B	Rajat Kapoor			
52		2004649	B	Ravneet Singh Virk			
53	G22	2004643	B	Pumori Jagdev	Pf. Jasdeep Kaur	GNDEC Learn Hub	1. To develop core functionality, including registration of Student and Instructor, login and dashboard. 2. To provide a platform where Instructors can publish courses and students can then readily access and watch course at their own pace. 3. To create a seamless and engaging live video streaming experience for both educators and learners to improve user participation.
54		2004645	B	Rahul Choudhary			
55		2004826	C	Kunwar Chetan Singh			

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56	G23	2004679	C	Tarundeep singh	Pf. Supreet Kaur	Smart Parking App	1. To Enable parking lot owners to create their account and access booking history on their own. 2. To Integrate Google Maps to display nearby parking lots by presenting real-time parking options in the vicinity. 3. To enable users to add and save details of more than one vehicle within the application for easy management of multiple cars 4. To implement QR code functionality for regular users for quick and contactless parking reservations.
57		2004683	C	Vansh Khanna			
58	G24	2004634	B	Pankaj Jangid	Dr. Hardeep Singh Kang	GestureWheel	1. To Develop a Comprehensive System for Hand Gesture and Finger Movement Recognition. 2. To Design and Implement an Engaging User Interface for Gesture Wheel Game. 3. To Design and Develop an Engaging and Immersive Racing Game Experience
59		2004652	B	Rohan			
60		2004657	C	Sahil Sharma			
61	G25	2004398	C	Abhay Madaan	Pf. Jasmine Kaur	P2P trader	1. To create an enhanced user interface and user experience(UI/UX) design for a P2P trader website. 2. To provide a secure P2P trader website for users by leveraging blockchain technology and ipfs technology 3. To deploy website on an appropriate platform
62		2004976	C	Raunak Raj			
63		2004978	C	Ritesh Kumar			
64	G26	2004528	A	Abhey Rajput	Dr. Kapil Sharma	NumeriSolve- Your equation to success	1. To build an equation detection system using computer vision 2. To design and develop a robust mathematical AI model capable of autonomously solving algebraic equations and polynomial equations upto power 5. 3. To ensure that the AI model validates the accuracy in equation solving and operates efficiently to meet user expectations
65		2004659	C	Sanyam Garg			
66		2004684	C	Vanshita Khera			
67	G27	2004653	C	Rohit	Dr. Kiran Jyoti	Green Circle	1. To develop E-waste management webapp using MERN(MongoDB, Express.js, React.js, Node.js) technologies. 2. To provide digital data related to E-waste and its environmental impact, business opportunities related to E-waste management field. 3. To provide virtual map for finding E-waste disposal centers and interact through forum.
68		2004660	C	Sarvesh Garg			
69		2004661	C	Saurabh Kumar			

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70	G28	2004671	C	Sourav	Pf. Kuljit Kaur	CodeVenture	1. To develop a user-friendly interface that enables educators to efficiently create coding assessments. 2. To insert problem statements with sample input and output. 3. To maintain an organized and secure database for storing previous questions.
71		2004687	C	Vivek Thakur			
72	G29	2004668	C	Simranpreet Kaur	Pf. Harkomalpreet Kaur	ALGOBRIGHT : An Algorithm visualizer	1. To develop customizable grid interface that enable us to find shortest path. 2. To design and develop a web-based platform to visualize various pathfinding algorithms. 3. To streamline and simplify the deployment process by Dockerization.
73		2004673	C	Sukhmanpreet Kaur			
74	G30	2004674	C	Sukhmanveer Singh	Pf. Jaswant Singh	ArtVault	1. To enable users to discover photos from their personal media dataset. 2. To Provide users with a streamlined and intutiative platform for organizing and managing their large photo collection with authentication. 3. Display photos accoring to location by extracting geotag mata data.
75		2004680	C	Tehal Singh			
76		2004681	C	Tejbir Singh			
77	G31	2004689	C	Yashanpal singh	Dr. Sita Rani	E-COMMERCE PRICE DROP ALERT SYSTEM	1. To implement Django framework for the website that can scrape price data of a given product from different ecommerce websites. 2. To create a user friendly interface that allows user to enter product URL and their email on which they want to be notified. 3. To compare prices of given product from different e-commerce websites and sends notification to user whenever there is drop in price.
78		2004690	C	Yuvraj Singh			
79		2004626	B	Mitush			
80	G32	2004813	C	Guneet Kaur	Pf. Meetali	Exam Venue Allocator	1. To develop a system for exam sitting arrangement, and generate the output seating arrangement in the form of excel sheet. 2. To enable admin to input information regarding availability of exam rooms and their students list in the form of csv file. 3. To test the system comprehensively by providing the real time data of the department
81		2104221	C	Dikshita			

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82	G33	2104217	C	Amanjot Singh	Dr. Parminder Singh	ANN BASED EMOTION DETECTION FROM PUNJABI TEXT	1. To enhance annotated corpus of Punjabi text that includes various types of emotions. 2. To apply pre-processing techniques for normalization, tokenization and stop word removal from corpus and input text. 3. To apply feature extraction methods and Artificial Neural Network technique for emotion detection. 4. To develop a system for detection of emotions from input Punjabi text.
83		2104220	C	Chirag Kumar			
84	G34	2104218	C	Amanpreet Kaur	Pf. Jasbir Singh Saini	SMART WIFI DOOR LOCK SYSTEM WITH CAMERA	1. To establish system connectivity with app to facilitate seamless communication. 2. To initiate the transmission of alert messages upon the activation of the doorbell button. 3. To implement the capability to capture a photographic image of the individual activating the doorbell. 4. To enable the unlocking of the door through the utilization of digital commands after authorization.
85		2104222	C	Gurneet Kaur			
86		2104224	C	Jaspreet Kaur			
87	G35	2004567	A	Geetanjali Kumari	Pf. Diana Nagpal	A framework to decipher body language of old aged people	1. To collect data of various activities performed by elderly. 2. To design a model to recognize Pulling, Pushing,Picking up something,Cutting Vegetables and Walking activities. 3. To test and validate model's accuracy, precision,recall,F1-score.
88		2004576	A	Gursimar Kaur			
89	G36	2004538	A	Ankur	Pf. Satinderpal Singh	Deploying Honeypot at GNDEC	1. To deploy a honeypot system to monitor and analyse network traffic. 2. To detect and record potential cyber threats and attack attempts. 3. To enhance the overall cybersecurity posture of Guru Nanak Dev Engineering College.
90		2004557	A	Chirag Sharma			
91		2004571	A	Gurkirat singh			

S/d
Project Coordinator(s)

S/d
HOD