

STUDENT'S DAILY DIARY/ LOG

Name of student: Vinayak Tusharbhai Chavda

Date	Day	Name of completed Task	Work of the day	Sign of the Industry supervisor
16/01/25	Thursday	Orientation & Introduction	Orientation covers company policies, internship expectations, and IT setup, followed by role understanding, tools, deadlines, and initial tasks like reviewing materials, and a small assignment.	
17/01/25	Friday	Install necessary softwares and do login in support portal	Done login in company's support portal , installed required softwares for development Which are visual studio , git gui , Microsoft Products ,have a tour about software tools.	
20/01/25	Monday	Git tutorial and commands Learning	Learned about Git and how it works, completed tutorial of Git command implementataion.	
21/01/25	Tuesday	MVC	Started to learn Microsoft ASP.NET MVC and started a learning series from you tube with hands on experience using Visual Studio.	
22/01/25	Wednesday	Videos of playlist	Watched videos on the ASP.NET MVC and studied basic concepts of the framework like basic workflow setting up the project , dependencies installation etc	
23/01/25	Thursday	Learning ASP.NET	Learned about .NET topics like code first approach and did the SQL server configuration and setup and also learned about working in team using git and github and how collaboration works.	
24/01/25	Friday	Learning ASP.NET	Learned About code first approach and did the github setup and learned how to work on project as a team using github's contribution feature and did some work on small project for practice.	

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27/01/25	Monday	SQL Error Fix & Query Learning	Worked on existing error in previous code and learned about SQL and query types, attributes and syntax of different problem query solution. Also revised some previous .NET topic.	
28/01/25	Tuesday	CRUD App Setup & Sessions	Completed SQL Server Managment Studio setup and move forward with topics like Database first approach and build a basic CRUD Application which saves and displays data direct from database. Also learned about Sessions in .NET and how they work around the whole application.	
29/01/25	Wednesday	ASP.NET Core Web API & Swagger	Started ASP.NET Core Web API, made basic api with different endpoints to learn workflow and also learned basics of swagger which is tool for API documentation and basic ui to see working of different endpoints.	
30/01/25	Thursday	Web API Learning & HttpClient	As today i did not had access to SQL server managment studio ,I watched some videos on ASP.NET Core Web API how can we create how can we make request and manage the incoming data and how can we call that API from frontend using HttpClient Class.	
31/01/25	Friday	API Integration & Data Verification	Applied Previously Learned Concepts in My API and frontend and made API calls and cross verified the data incoming with the swagger tools call.	

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03/02/25	Monday	API & MVC Setup	Made a .NET Core Web API for to do application and worked on the MVC application from which we can call that api and which is responsible for providing the user interface to interact with the data.	
04/02/25	Tuesday	CRUD Implementation	Created Todo API in ASP.NET Core Web API with frontend in ASP.NET Core MVC and implemented connection between frontend MVC app and backend API and implemented basic CRUD Operations.	
05/02/25	Wednesday	Unit Testing API	Made Unit Tests for previously made API and implemented the test cases with libraries like moq and xunit and proceeded further with videos and learned another topics related to ASP.NET Core Web API.	
06/02/25	Thursday	Code First Troubleshooting	Tried the code first approach but it is still having error which i tried to solve , watched projects build on ASP.NET MVC and tried to understand the workflow of the project.	
07/02/25	Friday	Expense Tracker Start	Started working on small project , an expense tracker and made basic pages for display and add categories of expense.	

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10/02/25	Monday	Template & Database Models	Started working on the project given by our mentor and made basic template which we can work upon from now on. Implemented models to work on through database first approach.	
11/02/25	Tuesday	User CRUD API	Worked on the API part of the task management system where i implemented the crud operation for user.	
12/02/25	Wednesday	JWT Authentication	Added the JWT Authentication and Authorization in the endpoints of the User and also task and read about the JWT tokens and classes of JWT Like Claims and how claims is helpful for authorization.	
13/02/25	Thursday	Frontend Pages & Authentication	Made Front end pages for the API added the admin and user authentication in the frontend and also made task pages where user can see all the task assigned to him or created by him.	
14/02/25	Friday	Frontend Refinements & API Updates	Worked on task management project added some functionality in the frontend and updated API accordingly.	

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17/02/25	Monday	API Role-based Authentication	Worked on some new endpoints of the API which was needed in the UI to build, also made them secure with multiple role authentication.	
18/02/25	Tuesday	UI Integration and Bug Fixes	Added new UI and according API in the backend and handled some critical errors.	
19/02/25	Wednesday	Admin Page and Security Fixes	Added admin page to the project and made admin API secured by role of admin and solved some bugs related to database loops and conflicts in the API data via several secured endpoints.	
20/02/25	Thursday	Task Management & Team Support	Completed the task management system and added some extra functionality in free time while resolving errors in teammate's project, Then started new series on OCR (Optical Character Recognition) which is one of the topics we have to learn.	
21/02/25	Friday	OCR Technology Exploration	focusing on various models and algorithms used in text recognition. I explored the different libraries and tools available for implementing OCR systems and began experimenting with Python libraries like Tesseract.	

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24/02/25	Monday	Task Management & Python Basics	Completed the remaining functionality in the Task management application and started to explore the python. I get to know about the internal working of python how mutable and immutable works.	
25/02/25	Tuesday	Python Syntax & FastAPI	Proceeded with basics of python in which i completed all the basic syntax and then, I learned about FastAPI	
26/02/25	Wednesday	Developed Python API	Worked on python, completed all basic syntax and important class usage. Made a basic API with raw python using the HTTPServer class already included in the python	
27/02/25	Thursday	Blogging Website Planning	Today, Aditya, Brijesh, and I discussed our project idea and decided to move forward with building a blogging website. We're aiming to add a bit more complexity than just basic CRUD operations. We've set up the initial project and configured GitHub for team collaboration.	
28/02/25	Friday	Blogging Website Development	Today we started to working on the blogging website project in which we defined how database is going to be designed we discussed about some pages	

			that will be necessary and started with basic frontend page development	
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03/03/25	Monday	Blog & Profile Features	Today I, Aditya and brijesh created endpoints for Create Blog, Edit UserProfile, Fetching blogs, created comment section for frontend side, we created main page where user will be able to see all the new blogs posted(recently)	
04/03/25	Tuesday	Saved Blog API	Today, Me, Brijesh and Aditya created the saved blog API with the frontend part, including the index page, comment section, read more page with image functionality.	
05/03/25	Wednesday	Liking & Unsaving API	Today,I completed the API for liking and unsaving blogs that users have saved. we also connected it with the frontend and developed the frontend part using ASP.NET Core MVC. Additionally	
06/03/25	Thursday	80% Project Completion	Today, Aditya, Brijesh, and I completed nearly 80% of our project.	
07/03/25	Friday	Project Completion & OCR	Today, we finished our group project, the blogging website with all it's functionality. and we are planning to start learning OCR from Monday.	

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10/03/25	Monday	Image Processing	started basic of image processing and started to learn machine learning libraries like tensorflow and scikit learn for better understanding.	
11/03/25	Tuesday	Data extraction	Today , I tried to watch the videos and learn about data extraction from images but it was bit of a jump so we read about all the other python tools and libraries that are being used in the process.	
12/03/25	Wednesday	Optical recognition System	Learned about different python libraries used in OCR and pdf scanning and also learned basic uses and implementation of opencv python library.	
13/03/25	Thursday	Holiday	Holiday	
14/03/25	Friday	Holiday	Holiday	

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17/03/25	Monday	Explored Tailwind CSS for UI Design	As my all before project was having main issue with the UI ,I started to explore about tailwind CSS and learned about different kind of classes it provides to make UI more beautiful and responsive.	
18/03/25	Tuesday	Learning Regular Expressions for Data Extraction	As my current project have need of reading pdf and extracting data from it , This process have regex as a main part which will be used for recognizing the part of whole data and how to differentiate data from each other so i started learning regular expression and tried some hands-on for better clarification.	
19/03/25	Wednesday	Researched PDF Data Extraction Methods	Did research about how can we extract data from any pdf (invoice specially). Founded three ways today. One was using tesseract,pdfPlumber and easyOCR tool like it, Second one was using a library specially designed for extracting data from invoice named invoice2Data but none of this were as efficient as the third one which was using Gemini pro API (AI). Wrote code for it and then proceeded with my remaining tailwind css practice.	

20/03/25	Thursday	Built Tool for Invoice Data Extraction Using Gemini API	made a tool using python which use gemini api to give extracted data from invoice and convert it into json format to process further.	
21/03/25	Friday	Modified Tool & Started Learning Docker	Modifies python tool to generate json data according to invoice and then started to learn Docker which is important tool to work in a project with multiple peoples and multiple systems.	

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24/03/25	Monday	PDF Upload & Scanning	Moved forward with some modification in the tool i made using gemini api , where i implemented uploading pdf to scan it's text and give according response in json format.	
25/03/25	Tuesday	AI for Data Extraction	Searched about different AI trained specially for data reading and extraction and also moved forward with my frontend development practice using tailwind css.	
26/03/25	Wednesday	Tool Testing & React	Tested python tool using various types of invoice formats , Founded some errors in the output data and tried to fix it. After that i continued my practice in frontend using react and tailwind.	
27/03/25	Thursday	Amazon Textract & Landing Page	implemented some test cases using amazon textract and analyzed it's response, proceeded with the frontend practice using react and tailwind and made basic landing page with different page navigation.	
28/03/25	Friday	React Practice & Research	Continued my react playlist alongside practicing tailwind and also did some research on python data extraction tool.	

