GUJARAT TECHNOLOGICAL UNIVERSITY
(Established under Gujarat Act No. 20 of 2007)

ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી

(ગુજરાત અધિનિયમ ક્રમાંક: ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

Enrollment no: 210280116082

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: VINAYAK TUSHARBHAI CHAVDA

DIARY OF THE WEEK: Dt: 31/03/2025 TO 04/04/2025

DEPARTMENT: INFORMATION TECHNOLOGY SEM: 8th

NAME OF THE ORGANISATION: BUCHANAN TECHNOLOGIES LLP

NAME OF THE PLANT/SECTION/DEPARTMENT: EMERGING TECHNOLOGIES

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: HARDIK SHETH

DESCRIPTION OF THE WORK DONE IN BRIEF

This week, I continued progressing through my React learning series, focusing particularly on state management. I explored both the built-in **Context API** and the widely-used **Redux** library, gaining a better understanding of how each manages application state effectively.

Midweek, I completed a **weather API project** using **FastAPI** in Python. As part of this, I integrated **Redis** to handle caching and improve performance. After finishing the core functionality, I made enhancements by adding additional endpoints and learning about **multithreading** in Python to better manage concurrent operations.

Toward the end of the week, I began a new project called **eCoder**—a platform where developers can write, run, and save code. I designed the initial **landing page** and laid out the project structure, setting the foundation for continued development in the coming days.

TOTAL HOURS: 40 HOURS

SIGNATURE OF STUDENT

✪ **The above entries are correct and the grading of work done by Trainee is EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR**

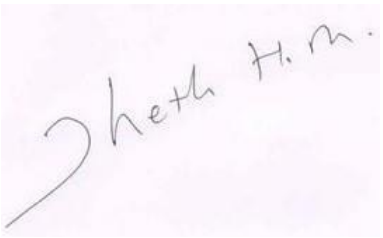
Signature of Faculty Mentor

Signature of officer-in-charge of Dept. / Section / Plant

Date:

Date:

✪ **Grading of Work, for trainee may be given depending upon your judgement about his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.**



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Enrollment no: 210280116082

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: VINAYAK TUSHARBHAI CHAVDA

DIARY OF THE WEEK: Dt: 07/04/2025 TO 11/04/2025

DEPARTMENT: INFORMATION TECHNOLOGY SEM: 8th

NAME OF THE ORGANISATION: BUCHANAN TECHNOLOGIES LLP

NAME OF THE PLANT/SECTION/DEPARTMENT: EMERGING TECHNOLOGIES

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: HARDIK SHETH

DESCRIPTION OF THE WORK DONE IN BRIEF

This week, I continued building and refining a practice project focused on user authentication and project management. I began by implementing core authentication features in the backend, including secure password hashing and token generation. On the frontend, I developed both **login** and **registration pages**, connecting them with the backend to enable a working auth flow.

As the week progressed, I completed the **authentication module**, set up necessary **database tables**, and integrated **GitHub OAuth** to allow users to sign in using their GitHub accounts. This enhanced the user experience and added flexibility to the login system.

Midweek, I shifted focus to building out APIs related to user projects. I created endpoints for **creating new projects**, **retrieving projects by user ID**, and **fetching individual project details**. These APIs were connected to the frontend through a form that allows users to easily submit and manage their projects.

I also returned to work on the **eCoder** platform, where I built the entire **Projects page**. This included functionality to **view all projects by any user**, access individual project details, and delete projects as needed.

Toward the end of the week, I implemented the **Editor page** in the current project. This page allows users to **write, execute, and save code**, making it a fully interactive environment that adds real functionality to the platform.

TOTAL HOURS: 40 HOURS

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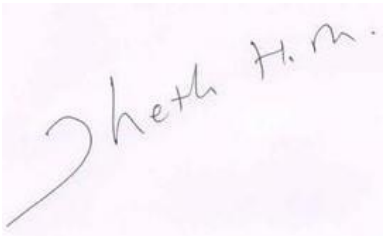
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