



**BHASKARACHARYA NATIONAL INSTITUTE FOR SPACE
APPLICATIONS AND GEO-INFORMATICS**

WEEKLY PROGRESS REPORT (15/12/2025 – 21/12/2025)

WEEK 2

PROJECT NAME

NOT ASSIGNED

PROJECT DESCRIPTION :

NOT ASSIGNED

GROUP MEMBER :

**VANDIT MUNIYA, MITANSHU PARMAR, DIXIT
RAM**

GROUP ID :

2025G152

GROUP GUIDE :

Dr. MANOJ PANDYA

GROUP COORDINATOR :

SIDHDHARTH PATEL

COLLEGE GUIDE NAME :

NEHA FOTEDAR

COLLEGE GUIDE No. :

NOT ASSIGNED

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COLLEGE NAME :

DHARMSINH DESAI UNIVERSITY, NADIAD

15/12/2025	<ul style="list-style-type: none"> • Gained a foundational understanding of Python programming, including variables, data types, operators, and basic input/output operations. (<i>Vandit Muniya</i>) • Practiced control structures such as conditional statements and loops, and worked with functions and basic data structures like lists, tuples, sets, and dictionaries. (<i>Mitanshu Parmar</i>) • Learned shell scripting fundamentals, including writing simple scripts, using variables and command-line arguments, using basic linux command, and performing basic file input/output operations
16/12/2025	<ul style="list-style-type: none"> • Gained a solid understanding of NoSQL concepts and MongoDB data modeling, including databases, collections, and documents..(<i>vandit muniya</i>) • Performed CRUD operations in MongoDB and worked with query operators, indexing, and basic aggregation techniques to improve data retrieval performance.(<i>mitanshu parmar</i>) • Learned core DBMS fundamentals, including data modeling, ER diagrams, normalization (1NF–3NF), relationships, and constraints.(<i>dixit ram</i>)
17/12/2025	<ul style="list-style-type: none"> • Developed an understanding of how relational databases store, manage, and retrieve structured data efficiently while maintaining data integrity.(<i>vandit muniya</i>) • Explored both SQL and NoSQL databases by working with MySQL and MongoDB, understanding their use cases and differences.(<i>mitanshu parmar</i>) • Practiced SQL queries for data insertion, retrieval, updating, and deletion, including joins, indexing, and studied NoSQL concepts such as document-based storage and flexible schemas.(<i>dixit ram</i>)

18/12/2025	<p>Our team brought their ideas about the project and it's definition as well as challenges, we discussed about projects.</p> <ul style="list-style-type: none"> • A digital village management platform that provides real-time news, announcements, and emergency alerts from village administration. It also includes a community calendar to keep residents informed about festivals, meetings, health camps, agricultural fairs, and government program schedules.(vandit muniya) • A centralized local services and support system that helps villagers access essential services such as healthcare, police assistance, education resources, government offices, and utilities. The platform also offers agriculture-focused features like daily mandi prices, weather alerts, crop advisory, soil testing information, and irrigation schedules to support farmers.(mitanshu parmar) • An interactive community engagement and marketplace system that allows citizens to submit grievances with photo/video evidence, track complaint status, and provide anonymous feedback. It also includes a local marketplace for buying and selling agricultural produce, handicrafts, local goods, service providers, and rental services, with an admin dashboard for issue resolution.(dixit ram)
19/12/2025	<ul style="list-style-type: none"> • Our team focused on finalizing the core concept and features of the project titled 'Town Digital Platform'. Identified major modules such as local announcements, public services, agriculture support, grievance management, and job updates. Planned next implementation steps. (Group discussion)
20/12/2025	Reporting at collage (DDU Nadiad)
21/12/2025	Holiday (Sunday)

Next Week Plan	In the coming week, our team plans to concentrate on discussing and finalizing the project we will work on. We intend to prepare a basic structured plan that includes defining the project flow, listing core features, identifying the required technologies, and allocating responsibilities.
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