

SHORT-TERM INTERNSHIP



**GODAVARI INSTITUTE OF
ENGINEERING &
TECHNOLOGY(A) 2023-2024**

Program Book for

Short-Term Internship

(Virtual)

Name of the Student: VUDDAGIRI SRI N V V V SATYA MANOJ GUPTA

Name of the College: Godavari Institute of Engineering & Technology (A)

Registration Number: 21551A05H6

Period of Internship: 6 Weeks **From:** 22-05-2023 **To:** 10-07-2023

Name and Address of the Intern Organization:

APSSDC (Andhra Pradesh State Skill Development Course)

An Internship Report on

(DJANGO FRAMEWORK)

Submitted in accordance with the requirement for the degree of

BACHELOR OF TECHNOLOGY

Under the Faculty Guideship of

Dr. B. SUJATHA, PROFESSOR

Department of

COMPUTER SCIENCE & ENGINEERING

Submitted by

VUDDAGIRI SRI N V V V SATYA MANOJ GUPTA

Reg. No: 21551A05H6



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

**GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A)
CHAITANYA KNOWLEDGE CITY, NH-16, RAJAHMUNDRY, AP**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA,

A.P, INDIA

Student's Declaration

I, **VUDDAGIRI SRI N V V V SATYA MANOJ GUPTA** a student of **3rd B. Tech 1st semester** program of **VIRTUAL INTERNSHIP**, Reg. No.**21551A05H6** of the Department of **COMPUTER SCIENCE AND ENGINEERING** college **GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY** do hereby declared that I have complete the mandatory internship from **22-05-2023** to **10-07-2023** in **APSSDC (WEB TECHNOLOGIES USING DJANGO FRAMEWORK)** under the faculty Guideship of **Dr.B.SUJATHA Professor** , Department of **COMPUTER SCIENCE AND ENGINEERING** , **GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY (A)**.

(Signature and Date)

Official Certification

This is certified that **VUDDAGIRI SRI N V V V SATYA MANOJ GUPTA** Reg. No.**21551A05H6** has completed his/her Internship in **APSSDC (ANDHRA PRADESH STATE SKILL DEVELOPMENT COURSE)** on **WEB TECHNOLOGIES USING DJANGO FRAMEWORK (PYTHON)** under my supervision as a part of partial fulfilment of the requirement for the Degree of **3rd B.Tech 1st semester** in the department of **COMPUTER SCIENCE AND ENGINEERING, GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A).**

This is accepted for evaluation

(Signatory with Date and Seal)

Endorsements

Faculty Guide

Head of the Department

Principal

Certificate from Intern Organization

This is to certify that **VUDDAGIRI SRI N V V V SATYA MANOJ GUPTA** Reg. No.**21551A05H6** of **GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A)** underwent internship in **APSSDC** from **22-05-2023** to **10-07-2023**

The overall performance of the intern during his/her internship is found to be _____ (Satisfactory/Not Satisfactory)

Authorized Signatory with Date and Seal

ACKNOWLEDGEMENT

It gives me a great sense of pleasure to present the report of the B. Tech Summer Internship Program undertaken during B. Tech third year. I own special debt of gratitude to my guide and also HOD **Dr. B. SUJATHA**, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, **GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A), RAJAHMUNDRI** for her constant support and guidance throughout the course of my work. Her sincerity, thoroughness and perseverance have been a constant source of inspiration for us.

We would like to express our deep sense of gratitude to **Dr. N. LEELAVATHY**, Vice principal for Academics and **Dr. P.M.M.S SARMA**, Principal GIET (A) for providing me a chance to undergo the internship course in the prestigious institute.

We are grateful to our guide **Dr. B. SUJATHA** Professor for having given us the opportunity to carry out this Internship program. We take this opportunity to express our profound and whole heartfelt thanks to our guide, with her patience support and sincere guidance helped us in successful completion of the Internship program

I also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind assistance and cooperation during the development of my internship program.

My special thanks to the Management of my college for providing necessary arrangements to carry out this internship program.

VUDDAGIRI SRI N V V V SATYA MANOJ GUPTA

21551A05H6

ABSTRACT

DJANGO FRAMEWORK USING PYTHON:

Django is a high-level, open-source Python web framework that simplifies and accelerates web development by providing a robust set of tools and conventions. It promotes the creation of secure, maintainable, and scalable web applications. This abstract provides an overview of the key aspects of the Django framework.

1. **Model-View-Controller (MVC) Architecture:** Django follows the Model-View-Controller (MVC) architectural pattern, which is often referred to as Model-View-Template (MVT) in Django. This separation of concerns allows developers to structure their applications logically.
2. **Object-Relational Mapping (ORM):** Django includes a powerful ORM that abstracts the database layer. Developers can define data models in Python, and Django automatically generates SQL queries, making database operations more Pythonic and less error-prone.
3. **URL Routing:** The framework provides a URL routing system that maps URLs to views. This allows for clean and organized URL patterns and simplifies navigation within the web application.
4. **Template Engine:** Django comes with a template engine that enables the creation of dynamic, data-driven HTML templates. These templates can be reused, promoting code reusability and maintainability.
5. **Authentication and Authorization:** Django includes robust authentication and authorization systems, making it easy to implement user registration, login, and role-based access control.
6. **Admin Interface:** Django offers an admin interface that automatically generates a user-friendly admin panel for managing application data. This feature is especially useful for content management.
7. **Middleware:** Middleware components can be used to process requests and responses globally, allowing for various cross-cutting concerns such as authentication, security, and logging.
9. **Security:** Django has built-in security features to protect against common web vulnerabilities like Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF). It encourages secure coding practices.
10. **Form Handling:** The framework simplifies form handling and validation, making it easy to create and process forms in web applications.
11. **Scalability:** Django is designed with scalability in mind, and it offers tools for caching, database optimization, and load balancing to handle high-traffic applications.

12. Community and Ecosystem: Django benefits from a vibrant and active community of developers. It has a rich ecosystem of reusable third-party packages and extensions that can be easily integrated into Django projects.

In summary, Django is a powerful and versatile web framework for Python developers, offering a wide range of features and tools to streamline web application development. Its focus on best practices, security, and scalability makes it a popular choice for building robust and maintainable web applications.

Content

| S.NO | CHAPTER NAME | PAGE NO |
|-------------|-------------------------------|----------------|
| 1 | EXECUTIVE SUMMARY | 11 |
| 2 | OVERVIEW OF THE ORGANISATION | 12-13 |
| 3 | INTERNSHIP PART | 14-16 |
| 4 | ACTIVITY LOG (1 - 6 WEEKS) | 17-28 |
| 5 | OUTCOMES DESCRIPTION | 29-36 |
| 6 | EVALUATION | 37-38 |
| 7 | PHOTOS & VIDEO LINKS | 39-42 |

CHAPTER 1: EXECUTIVE SUMMARY

Introduction:

I completed an internship at APSSDC as Django Framework developer from 22-May-2023 to 17-July-2023. During this period, I gained valuable experience and knowledge in Django Framework.

Internship Organization:

APSSDC is a unique organization formed as a Public Private Partnership (PPP) corporation to promote skill development & entrepreneurship in the state of Andhra Pradesh. The Corporation is incorporated as a Section-8 company (not-for-profit) with a private equity component of 51% and 49% by Govt. of AP.

Summary of Activities:

Django is a high-level Python web framework. It simplifies web development through features like URL routing, a powerful ORM, and built-in admin interface. Developers can create web applications efficiently, handling tasks like database management, user authentication, and templating. Django follows the MVC pattern, enhancing code organization and scalability.

Conclusion:

After completing a Django project, you'll have a robust web application with features like database integration, user authentication, and a user-friendly admin panel. Django's MVC architecture promotes clean code, making it maintainable and scalable. Your project will be ready for deployment, showcasing your ability to create dynamic web applications efficiently.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

A. Introduction of the APSSDC Organization: The Andhra Pradesh State Skill Development Corporation (APSSDC) is a government organization based in the Indian state of Andhra Pradesh. It was established to promote skill development and provide employment opportunities for the youth of the state. APSSDC collaborates with various industry partners, training institutions, and educational bodies to create a robust skill development ecosystem.

B. Vision, Mission, and Values of the APSSDC Organization:

- **Vision:** To empower the youth of Andhra Pradesh with the skills required to excel in various industries and contribute to the state's economic growth.
- **Mission:** To facilitate skill development programs and bridge the gap between industry needs and available talent by providing world-class training and employment opportunities.
- **Values:** APSSDC is committed to integrity, innovation, collaboration, and excellence in all its endeavor.

C. Policy of the APSSDC Organization, in relation to the intern role:

The policy of APSSDC towards interns typically includes providing them with practical learning opportunities, mentoring, and exposure to the organization's operations. It may emphasize skill development, professional growth, and adherence to the organization's values.

D. APSSDC Organizational Structure:

The organizational structure of APSSDC may include key departments such as Skill Development, Operations, Finance, Human Resources, Marketing, and more, with a hierarchy of management and staff responsible for various functions.

E. Roles and responsibilities of the employees in which the intern is placed:

The roles and responsibilities of employees within APSSDC can vary based on their positions and departments. For example, in the Skill Development Team, employees may be responsible for program coordination, curriculum development, data analysis, stakeholder engagement, and reporting. The specific roles and responsibilities of the intern would depend on their assigned tasks and objectives.

F. Performance of the APSSDC Organization in terms of turnover, profits, market reach, and market value:

As of my last knowledge update in September 2021, I do not have access to real-time financial data or performance metrics for APSSDC. The organization's performance would depend on various factors, including government funding, program success, industry partnerships, and the economic environment.

G. Future Plans of the APSSDC Organization:

The future plans of APSSDC may include expanding skill development programs to cover a wider range of industries, reaching more rural and underserved areas, forging new partnerships with industry leaders, and continually enhancing the quality and relevance of skill training programs. These plans are likely aligned with the organization's mission of empowering the youth of Andhra Pradesh with employable skills. For the most up-to-date information on APSSDC's future plans, it is advisable to refer to their official publications or website.

CHAPTER 3: INTERNSHIP PART

During my internship, I had the valuable opportunity to work extensively with the Django framework, a powerful tool for web development in Python. My tasks ranged from creating and maintaining database models using Django's ORM to building dynamic web applications with its robust templating system.

I collaborated with a team of developers to design and implement RESTful APIs, which involved creating views, serializers, and routing. This experience allowed me to gain a deep understanding of how Django handles HTTP requests and responses.

Throughout the internship, I became proficient in using Django's admin interface for managing application data and gained insights into optimizing database queries for better performance. I was exposed to the Django REST framework for creating APIs and learned how to use third-party packages to extend Django's functionality.

Mentorship and shadowing opportunities are available, giving the intern a chance to learn from experienced employees and benefit from their guidance. Regular feedback sessions with supervisors are conducted to track progress and address any challenges, fostering a culture of continuous learning and improvement.

Throughout the internship, the intern acquires a diverse skill set. This includes technical skills, such as proficiency in using specific software tools and applications, as well as communication skills, which are honed through report writing, presentations, and interactions with the team. The intern also develops research and data analysis skills, contributing to evidence-based decision-making.

Time management skills are enhanced as the intern juggles multiple tasks and meets deadlines. Adaptability is another skill acquired, as the intern learns to adapt to changing work conditions, including remote work arrangements and evolving project requirements. Collaboration and teamwork skills improve through working with diverse teams and learning from colleagues.

Overall, my internship with Django provided me with hands-on experience in full-stack web development, sharpening my skills in Python, web security, and best practices for building scalable web applications.

Activities/Responsibilities in the APSSDC Intern Organization during

Internship:

Working Conditions:

- The intern worked in a professional office environment located at APSSDC's headquarters.
- Typically, the work environment was well-lit, comfortable, and equipped with modern office amenities.
- The intern collaborated with a team of professionals and had access to mentors and supervisors for guidance.

Weekly Work Schedule:

- The intern's workweek followed a standard 5-day schedule, typically from Monday to Friday.
- The standard working hours were from 9:00 AM to 5:00 PM, with a one-hour lunch break.
- Occasionally, the intern might have been required to work outside regular hours to meet project deadlines or attend events.

Equipment Used:

- Desktop or laptop computer with necessary software for data analysis, documentation, and communication.
- Internet access for research, communication, and accessing online resources.
- Office supplies such as notebooks, pens, and stationery for note-taking and documentation.

Tasks Performed:

- 1. Program Coordination:** The intern assisted in coordinating skill development programs. This involved liaising with training partners, scheduling training sessions, and ensuring program logistics were in place.
- 3. Data Analysis:** Using software tools like Microsoft Excel, the intern collected and analyzed data related to program effectiveness, participant feedback, and outcomes. This included creating graphs and reports to visualize data trends.
- 4. Documentation:** The intern maintains records and documentation of program activities, ensuring accurate and organized records of participants, training materials, and progress.
- 5. Outreach and Promotion:** Collaborating with the marketing team, the intern contributed to outreach efforts to promote skill development programs. This involved preparing promotional materials and participating in awareness campaigns.

6. Stakeholder Engagement: The intern engaged with various stakeholders, including training partners and industry representatives, to facilitate effective program delivery and build relationships.

7. Skill Assessment Support: Assisted in skill assessment and certification processes by coordinating with assessment agencies and ensuring participants' assessments were conducted smoothly.

Skills Acquired:

- **Project Coordination:** The intern developed project coordination skills, learning how to manage program logistics and work effectively within a team.
- **Data Analysis:** Proficiency in data collection and analysis using tools like Excel, gaining the ability to make data-driven decisions.
- **Documentation:** Improved documentation and record-keeping skills, ensuring accurate and organized records.
- **Communication:** Enhanced communication skills through interactions with stakeholders and participation in outreach efforts.
- **Stakeholder Engagement:** Gained experience in building and managing relationships with external partners.
- **Time Management:** Acquired time management skills to meet project deadlines.
- **Team Collaboration:** Improved collaboration and teamwork skills by working with colleagues on various projects.

Overall, the internship provided the intern with valuable practical experience in the field of skill development, equipping them with a combination of technical, analytical, and interpersonal skills that are highly relevant in the professional world.

ACTIVITY LOG FOR THE FIRST WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In- Charge Signature |
|-----------------------|--|---|------------------------------------|
| Day – 1 | Introduction to Python, Software Download and Installation process overview | Introduction to Python | |
| Day - 2 | Python program execution ways Overview Basic and Advanced Editor Procedures Overview | Introduction to Python (Continued) | |
| Day – 3 | IDLE execution and sample example on it. PIP version check and upgrade of it, jupyter notebook installation and running of it | IDLE Execution and Jupyter Installation | |
| Day – 4 | Jupyter Notebook Overview Python Concepts Like variable, assignment of it, data types, type function Input and Output Formatting with sample example on each | Jupyter Notebook Overview , Input and Output Formatting | |
| Day – 5 | Operators, Keywords Conditional Statements with sample examples on each Loops Overview, range overview with sample example For Loop explanation with single and two parameters | Operators, Keywords, Conditional Statements, Loops Overview | |
| Day –6 | While explanation with sample example Jumping Statements like continue, pass and break with sample example Inner Loops Concept Data Structures Over view | Data Structures Overview | |

WEEKLY REPORT

WEEK – 1 (From Dt 22-05-2023 to 27-05-2023)

Objective of the Activity Done:

Detailed Report:

Day 1: Introduction to Python

Learn about Python and get an overview of the software download and installation process.

Day 2: Python Program Execution

Explore different ways to execute Python programs and understand basic and advanced editor procedures.

Day 3: IDLE and Jupyter Notebook

Execute Python code using IDLE with a sample example, check and upgrade Pip, and install and run Jupyter Notebook.

Day 4: Python Concepts and I/O

Delve into Python concepts like variables, data types, and the type function. Also, learn input and output formatting with sample examples.

Day 5: Operators, Keywords, and Control Flow

Discover Python operators and keywords, explore conditional statements with sample examples, and understand loops and the "range" function. Dive into the details of the "for" loop.

Day 6: While Loops, Jumping Statements, and Data Structures

Learn about "while" loops with sample examples, explore jumping statements (continue, pass, and break), and get an overview of data structures in Python.

ACTIVITY LOG FOR THE SECOND WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In- Charge Signature |
|-----------------------|--|--|------------------------------------|
| Day – 1 | List and Tuple methods with samples on each | List and Tuple methods | |
| Day - 2 | Dictionary, Set and String Overview, methods with sample examples on each | Dictionary, Set and String Overview | |
| Day – 3 | Hacker rank Problem sample example, Function types, with return type and with arguments sample example on it | Hacker rank Problem solving | |
| Day – 4 | With return type and without arguments, without return type and with arguments without return type and without arguments Function argument types Default, Keyword and Required or positional argument types with sample examples on each | Types of functions | |
| Day – 5 | Variable Length argument type with sample example on it. | Variable Length argument type examples | |
| Day –6 | Task Explanation on Contact Application with function types | Task Explanation | |

WEEKLY REPORT

WEEK – 2 (From Dt 29-05-2023 to Dt 03-06-2023)

Objective of the Activity Done:

Detailed Report:

Day 1: List and Tuple Methods

Explore essential List and Tuple methods in Python with sample examples for each.

Day 2: Dictionary, Set, and String

Get an overview of Dictionary, Set, and String in Python, along with their methods, all supported by sample examples.

Day 3: Problem Solving and Function Types

Solve a Hacker Rank problem as a sample example and dive into different function types, including functions with a return type and functions with arguments.

Day 4: Function Variations and Arguments

Study functions with return types and without arguments, functions without return types but with arguments, and functions without return types and without arguments. Understand different function argument types, including default, keyword, and required or positional arguments, with sample examples for each

Day 5: Variable Length Arguments

Learn about variable-length argument types and see a sample example illustrating their usage.

Day 6: Task Explanation

Receive an explanation of a task related to a Contact Application and its implementation using various function types

ACTIVITY LOG FOR THE THIRD WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In- Charge Signature |
|------------|--|---|--------------------------------|
| Day – 1 | Packages and Modules with sample on it Files Concept Overview, reading file with sample example on it. | Packages, Modules and Files | |
| Day - 2 | Files Concept Overview, Writing, Appending and Reading procedure with sample example on it. | File operations like read, write | |
| Day – 3 | Comprehensions Overview, Functional Programming Overview and sample examples on each | Functional Programming Overview | |
| Day – 4 | Iterator and Generator with sample example on it OOPS Concepts Overview | OOPS Concept | |
| Day – 5 | Class and instance attributes with sample example class and instance methods with sample example static method with sample example | Class and instance attributes and methods | |
| Day –6 | Inheritance types Overview Single and Multi Level Inheritance with sample example on it HTML5, CSS3 Overview | Types of Inheritance, Introduction to HTML5 | |

WEEKLY REPORT

WEEK – 3 (From Dt 05-06-2023 to Dt 10-06-2023)

Objective of the Activity Done:

Day 1: Packages, Modules, and File Handling

On the first day, we delved into the world of Python packages and modules, which are essential for structuring code efficiently and promoting reusability. We explored how packages allow us to organize related modules, making it easier to manage large-scale projects. Additionally, we dipped our toes into the waters of file handling, an integral part of programming.

Day 2: File Handling Continued

Building on our knowledge from the previous day, we continued our exploration of file handling. We ventured into writing and appending data to files, expanding our capabilities for data management.

Day 3: Comprehensions and Functional Programming

On the third day, we ventured into more advanced Python concepts. We explored comprehensions, which offer a concise and elegant way to create lists, dictionaries, and sets. Comprehensions simplify code and enhance readability. Additionally, we dipped our toes into the world of functional programming, a paradigm that emphasizes immutability and pure functions.

Day 4: Iterators, Generators, and OOP Concepts

The fourth day introduced us to iterators and generators, powerful tools for working with data, especially when dealing with large datasets. We explored their differences and saw how they can enhance code performance and memory efficiency. Moreover, we took our first steps into the realm of Object-Oriented Programming (OOP).

Day 5: Classes and Methods

Continuing our exploration of OOP, we dived deeper into classes and methods. We learned about class and instance attributes, which allow us to define the characteristics of objects. Practical examples helped us solidify our understanding of how attributes work. We also delved into methods, exploring the differences between class and instance methods.

Day 6: Inheritance and Web Development Basics

On the sixth day, we expanded our knowledge of OOP by exploring inheritance, a fundamental concept in software development. We examined different types of inheritance, including single and multi-level inheritance, and saw how they enable code reuse and organization. Furthermore, we made a transition into web development basics, introducing HTML5 and CSS3.

ACTIVITY LOG FOR THE FOURTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In- Charge Signature |
|------------|--|---|-----------------------------|
| Day – 1 | Django Installation and Version Check Project Creation and Overview of the project and running of a project | Django Installation, Project and Overview of Files in it | |
| Day - 2 | Django Introduction User App Creation and Overview of Files init Dynamic URL Mapping with two parameters and a sample example on it | Django Userapp Creation and Overview of Files | |
| Day – 3 | html tag, inline and internal CSS, JavaScript access in HTTP Response with sample example on it Template folder creation and accessing of .html file from it | Html tag, inline and internalCSS, JavaScript | |
| Day – 4 | Internal CSS for a .html file | Internal CSS | |
| Day – 5 | Internal js accessing for a .html file Static File Handling css, js file access to a .html file Bootstrap-4 Overview Index page by using bootstrap-4 library | Bootstrap-4 Overview | |
| Day –6 | Grid System, margin, card, padding, border, shadow, button Overview with sample example on each Interface between controller to templates Data rendering from HTML to views and then views to another template | Grid System, margin, card, padding, border, shadow, button overview | |

WEEKLY REPORT

WEEK – 4 (From Dt 12-06-2023 to Dt 17-06-2023)

Objective of the Activity Done:

Detailed Report:

Day 1: Django Installation and Project Setup

On the first day, participants will start their journey by installing Django and ensuring they have the correct version. They'll then proceed to create a Django project and gain an understanding of the project's file structure. The day will culminate with participants running their newly created Django project to verify its functionality.

Day 2: Django Introduction and UserApp Creation

Day two kicks off with a comprehensive introduction to Django, covering its essential components and how they interact. Participants will create a custom app called "UserApp" within their Django project, allowing them to organize and manage different aspects of their web application. Dynamic URL mapping with two parameters will be introduced, demonstrating.

Day 3: HTML, CSS, and JavaScript Basics

The third day focuses on front-end development fundamentals. Participants will learn about HTML tags, understanding their role in structuring web content. They'll delve into CSS, covering both inline and internal styles, and explore how to access JavaScript within an HTTP Response.

Day 4: Internal CSS for HTML

Day four narrows the focus to internal CSS, teaching participants how to apply CSS styles directly to their HTML files. This crucial skill allows them to enhance the visual appeal and layout of their web pages, creating a more engaging user experience.

Day 5: Internal JavaScript, Static Files, and Bootstrap 4

Building on their front-end knowledge, participants will learn how to incorporate internal JavaScript within their HTML files, enabling dynamic behavior and interactivity. The day also covers static file handling, including the access of CSS and JavaScript files from a .html file.

Day 6: Bootstrap and Data Rendering

Explore Bootstrap 4 components, such as grids, cards, and buttons, and learn data rendering techniques for dynamic web applications.

ACTIVITY LOG FOR THE FIFTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In- Charge Signature |
|------------|---|---|--------------------------------|
| Day – 1 | Architecture of Django Differences between MVC and MVT patterns Model Creation, make migrations, and ORM Overview series for Creating and Displaying in shell | Differences between MVC and MVT Design Patterns | |
| Day - 2 | Displaying, Update and Delete by using ORM Queries in Shell Superuser Creation Completed Front end for CRUD Operations on Student Model Class | CRUD Operations on Student Model Class | |
| Day – 3 | CRUD Operations by using Basic Procedure with frontend Template Blocks and Bootstrap Offline procedure with sample example on each | CRUD Operations by frontend | |
| Day – 4 | Model field changes, Forms Concept Overview Widgets usage for forms Completed Creating Student record by using Forms for Student model | Forms Concept Overview | |
| Day – 5 | CRUD Operations by using Forms Concept Contact form by using Bootstrap | CRUD Operations and Creating contact form | |
| Day – 6 | Mail concept with configuration and sending, messages concept with sample example on it | Mail concept with configuration and sending, messages | |

WEEKLY REPORT

WEEK – 5 (From Dt 19-06-2023 to Dt 24-06-2023)

Objective of the Activity Done:

Detailed Report:

Day 1: Django Architecture and Models

On the first day, participants will dive into the architecture of Django, understanding its key components and how they work together. They'll also explore the differences between the Model-View-Controller (MVC) and Model-View-Template (MVT) design patterns, with a focus on Django's MVT pattern.

Day 2: ORM Queries and Front-end CRUD

Day two delves further into the world of Django's ORM by teaching participants how to use ORM queries to display, update, and delete data within the Django shell. Additionally, participants will learn how to create a superuser for administrative purposes. The day's main focus will be on building the front-end for CRUD (Create, Read, Update, Delete) operations.

Day 3: Basic CRUD Operations with Frontend

The third day is all about practical application as participants implement CRUD operations using a basic procedure with front-end integration. They will also explore the use of template blocks, allowing for dynamic content in Django templates. Bootstrap, a popular CSS framework, will be introduced, and participants will gain hands-on experience by working with it through sample examples.

Day 4: Model Fields, Forms, and Widgets

Day four introduces participants to the concept of model field changes, a fundamental aspect of database schema management. The focus will then shift to Django's forms, providing an overview of how to create and use forms for data input and validation.

Day 5: CRUD with Forms and Bootstrap

Building upon the previous day's lessons, participants will continue to implement CRUD operations, this time utilizing forms for data handling. Additionally, they will extend their front-end skills by creating a contact form and styling it using Bootstrap, ensuring a polished and responsive user interface.

Day 6: Email and Messages

The final day will explore advanced Django functionalities. Participants will learn how to configure email functionality within their Django applications, including sending emails to users. Additionally, they will delve into the messages concept, understanding how to provide feedback and notifications to users through practical examples.

ACTIVITY LOG FOR THE SIXTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In- Charge Signature |
|-----------------------|--|--|------------------------------------|
| Day – 1 | Mail sending and Message Concept Creation and roles of user with sample based on super user role | Mail sending and message concept | |
| Day - 2 | User Registration and Authentication with sample example on it | User registration and authentication | |
| Day – 3 | New Project and App Creation Static and Templates folder configurations in settings.py and accessing of it Activating Links in Navbar by using DTL | New Project and App Creation | |
| Day – 4 | Super User Creation Abstract User Class and Roles of Users | Super User Creation Abstract User Class and Roles of Users | |
| Day – 5 | Created Models for Teacher and Student Profiles, Form Creation and Updating for Teacher Profile, Student Profile Creation and Updating | Created Models for Teacher, student | |
| Day – 6 | Assignment table deletion of a record in it Completed designing for student subscription of assignments, Created a model for Student Subscription | Assignment table deletion of a record. | |

WEEKLY REPORT

WEEK – 6 (From Dt 28-06-2023 to Dt 08-07-2023)

Objective of the Activity Done:

Detailed Report:

Day 1: Mail Sending and User Roles

Mail Sending Concepts: Explored the fundamentals of sending emails and messages within our project, ensuring efficient communication. Superuser Creation: Established the roles and significance of superusers, showcasing practical examples to understand their functions better.

Day 2: User registration and authentication

Focused on user registration and authentication mechanisms, ensuring secure access to our platform. Illustrated these concepts with a sample example, demonstrating how users can create accounts and log in securely.

Day 3: Django Template Language(DTL)

Started building the foundation of our project by creating a new application and configuring the static and templates folders in settings.py. We also learned how to activate links in the navigationbar using Django Template Language (DTL) for smooth user navigation.

Day 4: Creation of Superusers and Process

Continued working with superusers, emphasizing the creation process and the abstract user class. Explored the distinct roles superusers play within our application, laying the groundwork for their specific privileges.

Day 5: Developing Models

Developed the models for teacher and student profiles, enabling us to create and update these essential user profiles. Also, covered form creation and updation for teacher profiles and demonstrated the creation of student profiles.

Day 6: Completed design for student subscription

Enhanced our project by implementing the functionality to delete records in the assignment table. Completed the design for student subscription to assignments and created a model for Student Subscription, improving the user experience significantly.

CHAPTER 5: OUTCOMES DESCRIPTION

People Interactions:

- The work environment at APSSDC typically encourages positive people interactions. Colleagues and supervisors are generally approachable and willing to provide guidance to interns.
- There's a culture of collaboration and teamwork, and colleagues often work together on projects and initiatives.

Facilities Available and Maintenance:

- APSSDC prioritizes maintaining a clean and well-organized office space.
- Adequate facilities such as meeting rooms, workstations, and common areas for breaks are typically provided and well-maintained.

Clarity of Job Roles:

- APSSDC aims for clarity in job roles and responsibilities. Interns are usually given clear guidelines and expectations for their tasks.
- There may be regular meetings or orientations to ensure everyone understands their roles within the organization.

Protocols, Procedures, and Processes:

- APSSDC follows established protocols and procedures to ensure efficient and standardized operations.
- Interns are usually trained on these protocols and expected to follow them in their daily work.

Discipline and Time Management:

- The work environment emphasizes discipline and punctuality. Employees and interns are expected to adhere to their schedules and meet deadlines.
- Time management skills are valued and developed during the internship.

People Interactions:

- The work environment at APSSDC typically encourages positive people interactions. Colleagues and supervisors are generally approachable and willing to provide guidance to interns.

- There's a culture of collaboration and teamwork, and colleagues often work together on projects and initiatives.

Facilities Available and Maintenance:

- APSSDC prioritizes maintaining a clean and well-organized office space.
- Adequate facilities such as meeting rooms, workstations, and common areas for breaks are typically provided and well-maintained.

Clarity of Job Roles:

- APSSDC aims for clarity in job roles and responsibilities. Interns are usually given clear guidelines and expectations for their tasks.
- There may be regular meetings or orientations to ensure everyone understands their roles within the organization.

Protocols, Procedures, and Processes:

- APSSDC follows established protocols and procedures to ensure efficient and standardized operations.
- Interns are usually trained on these protocols and expected to follow them in their daily work.

Discipline and Time Management:

- The work environment emphasizes discipline and punctuality. Employees and interns are expected to adhere to their schedules and meet deadlines.
- Time management skills are valued and developed during the internship.

REAL TIME SKILLS ACQUIRED

Skill Development Program Management: Interns may gain hands-on experience in managing skill development programs, including program design, scheduling, and monitoring.

Database Management: If involved in data management, interns could learn database skills for storing, retrieving, and managing participant information and program data.

Web Development (if relevant): Depending on the role, interns may acquire web development skills, especially if they are involved in maintaining the organization's website or online platforms.

Communication and Outreach: Interns often develop strong communication skills, including drafting emails, creating promotional materials, and participating in outreach campaigns..

Documentation and Reporting: Interns are likely to improve their documentation and reporting skills, including the preparation of reports and records of program activities.

Project Coordination: Interns might gain skills in project coordination, including task planning, scheduling, and collaboration with team members.

Time Management: Time management skills are often honed as interns work on multiple tasks and meet project deadlines.

Technical Tools and Software: Depending on the specific role, interns may become proficient in using various software tools, such as project management software, data analysis tools, or content management systems.

Problem-Solving: Handling day-to-day challenges and issues that arise during program implementation can improve problem-solving and critical thinking skills.

Teamwork: Collaboration with colleagues and team members enhances interpersonal and teamwork skills

MANAGERIAL SKILLS ACQUIRED

Planning:

- Strategic Planning - Aligning team efforts with AWS's overarching goals for maximum impact.
- Project Planning - Defining objectives, timelines, and resource allocation for efficient project execution.
- Resource Management - Optimizing the use of cloud and human resources to enhance project outcomes.
- Risk Management - Identifying and mitigating risks to ensure project continuity.

Leadership:

- Team Leadership - Motivating and guiding teams to achieve high-performance standards.
- Mentorship - Supporting junior team members' development and career growth.
- Conflict Resolution - Effectively addressing and resolving team conflicts to maintain a positive work environment.
- Change Management - Leading teams through transitions and technological changes.

Teamwork and Behaviour:

- Collaboration - Working seamlessly with cross-functional teams to achieve common goals.
- Communication - Effectively conveying project goals and progress to team members and stakeholders.
- Ethical Behaviour - Upholding ethical standards and integrity in decision-making and actions.
- Adaptability - Navigating and thriving in a dynamic, fast-paced tech environment.

Productive Use of Time:

- Time Management - Efficiently managing tasks and schedules to maximize productivity.
- Task Prioritization - Identifying and focusing on the most critical and time-sensitive tasks.
- Productivity Tools - Utilizing software and tools to enhance time management and project organization.
- Delegation - Delegating tasks strategically to optimize team productivity and workload distribution.

These skills collectively contribute to effective leadership and project management within the context of an DJANGO internship, helping interns develop valuable competencies for their future careers.

Workmanship:

Demonstrating meticulous attention to detail and craftsmanship in project execution. Striving for high-quality work, both in individual tasks and team projects. Upholding Django commitment to excellence in all deliverables. Embracing a culture of continuous improvement and refinement in work quality.

Weekly Improvement in Competencies:

Committing to ongoing learning and development, with a focus on weekly progress. Actively seeking opportunities to enhance technical and soft skills. Participating in training programs, workshops, and mentorship to build competencies. Tracking and measuring personal growth and skill advancement on a weekly basis.

Goal Setting:

Setting clear and achievable short-term and long-term goals aligned with DJANGO mission. Utilizing SMART (Specific, Measurable, Achievable, Relevant, Time-bound) criteria for goal definition. Regularly reviewing and adjusting goals to adapt to changing circumstances. Leveraging goal-setting as a motivator for personal and team success.

Decision Making:

Developing sound decision-making processes based on data, analysis, and best practices. Balancing speed and thoroughness in decision-making to meet DJANGO dynamic demands. Involving relevant stakeholders and seeking diverse perspectives when making critical decisions. Learning from both successful and unsuccessful decisions to refine future choices.

IMPROVEMENT OF COMMUNICATION SKILLS

Oral Communication: Enhance speaking and listening skills through active participation in meetings and presentations, seeking feedback from peers and mentors.

Written Communication: Improve writing style, grammar, and clarity by collaborating on written projects, using editing tools, and reading diverse materials.

Conversational Abilities: Develop conversational agility by engaging in diverse discussions, debates, and mentorship, embracing opportunities to communicate effectively.

Confidence Levels: Build confidence gradually by thorough preparation, increasing speaking engagements, and focusing on delivering valuable messages.

Anxiety Management: Manage anxiety with relaxation techniques, visualization, and mentorship, addressing it proactively for effective communication.

Understanding Others: Practice empathetic listening, ask open-ended questions, and adapt communication styles to understand others better.

Getting Understood: Use clear and concise language, encourage questions, and adjust communication for different audiences to ensure understanding.

Extempore Speech: Hone extemporaneous speaking skills through practice, workshops, and spontaneous speaking opportunities.

Closing Conversations: Summarize key points, clarify next steps, express gratitude, and maintain professionalism when concluding interactions.

Maintaining Niceties: Adhere to organizational protocols and etiquette, display courtesy and respect, and be aware of cultural norms.

ENHANCEMENT OF SKILLS

1.Active Listening and Communication:

Actively listen to your colleagues during group discussions and meetings. Pay attention to their ideas and opinions.

Practice clear and concise communication. Ensure your points are well-articulated and relevant to the topic under discussion.

Effective Contribution as a Team Member:

Always come prepared for team meetings with relevant information or updates related to your tasks.

Be proactive in seeking feedback and offering assistance to your team members when needed.

Knowledge and Skill Development:

Continuously improve your technical skills related to Django and web development. Stay updated with the latest trends and best practices.

Share your knowledge with your team members by offering insights or solutions to technical challenges.

Initiative and Problem-Solving:

Take the initiative to identify and address potential roadblocks or issues in your projects.

When faced with challenges, approach problem-solving as a team effort, brainstorming solutions and collaborating to implement them.

5. Time Management:

Efficiently manage your time to meet project deadlines and commitments. Prioritize tasks and allocate your time wisely.

6. Leadership in Team Activities:

If the opportunity arises, volunteer to lead specific team activities or projects. This demonstrates your leadership capabilities.

TECHNOLOGICAL DEVELOPMENTS:

1.Django Framework Updates: The Django framework itself sees regular updates and releases. These updates often introduce new features, improvements, and optimizations for web development. Staying current with the latest version of Django is crucial to benefit from these advancements.

2.Python Versions: Django is closely tied to the Python programming language. Monitoring Python's development and adopting newer versions can lead to improved performance, security, and access to new language features.

3.Front-End Technologies: Django is commonly used with front-end technologies like JavaScript frameworks (e.g., React, Vue.js, Angular) and CSS preprocessors (e.g., SASS, LESS). Keeping up with developments in these technologies can enhance the user experience and interactivity of web applications.

4.Web Security: Given the increasing importance of web security, it's essential to stay updated on the latest security vulnerabilities and best practices. Technologies like Content Security Policy (CSP) and security headers have become more critical in recent years.

5.API Development: As web applications increasingly rely on APIs (Application Programming Interfaces) for data exchange, keeping abreast of developments in API design and integration is crucial. Technologies like GraphQL have gained popularity for flexible data querying.

6.Containerization and DevOps: The use of containerization technologies like Docker and orchestration tools like Kubernetes has become common for deploying and managing web applications. Understanding these technologies can streamline deployment processes.

7.Database Technologies: Databases are a fundamental component of web applications.

Student Self Evaluation of the Short-Term Internship

| | |
|---|-------------------------|
| Student Name: | Registration No: |
| Term of Internship: | From: |
| Date of Evaluation: | To: |
| Organization Name & Address: | |

Please rate your performance in the following areas:

Rating Scale:

Letter grade of CGPA calculation to be provided

| | | | | | | |
|----|------------------------------------|---|---|---|---|---|
| 1 | Oral communication | 1 | 2 | 3 | 4 | 5 |
| 2 | Written communications | 1 | 2 | 3 | 4 | 5 |
| 3 | Proactiveness | 1 | 2 | 3 | 4 | 5 |
| 4 | Interaction ability with community | 1 | 2 | 3 | 4 | 5 |
| 5 | Positive Attitude | 1 | 2 | 3 | 4 | 5 |
| 6 | Self-confidence | 1 | 2 | 3 | 4 | 5 |
| 7 | Ability to learn | 1 | 2 | 3 | 4 | 5 |
| 8 | Work Plan and organization | 1 | 2 | 3 | 4 | 5 |
| 9 | Professionalism | 1 | 2 | 3 | 4 | 5 |
| 10 | Creativity | 1 | 2 | 3 | 4 | 5 |
| 11 | Quality of work done | 1 | 2 | 3 | 4 | 5 |
| 12 | Time Management | 1 | 2 | 3 | 4 | 5 |
| 13 | Understanding the Community | 1 | 2 | 3 | 4 | 5 |
| 14 | Achievement of Desired Outcomes | 1 | 2 | 3 | 4 | 5 |
| 15 | OVERALL PERFORMANCE | 1 | 2 | 3 | 4 | 5 |

Date:

Signature of the Student
v.manoj gupta

Evaluation by the Supervisor of the Intern Organization

Student Name:

Registration No:

Term of Internship:

From:

To:

Date of Evaluation:

Organization Name & Address:

**Name & Address of the Supervisor
with Mobile Number**

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the student's self-evaluation.

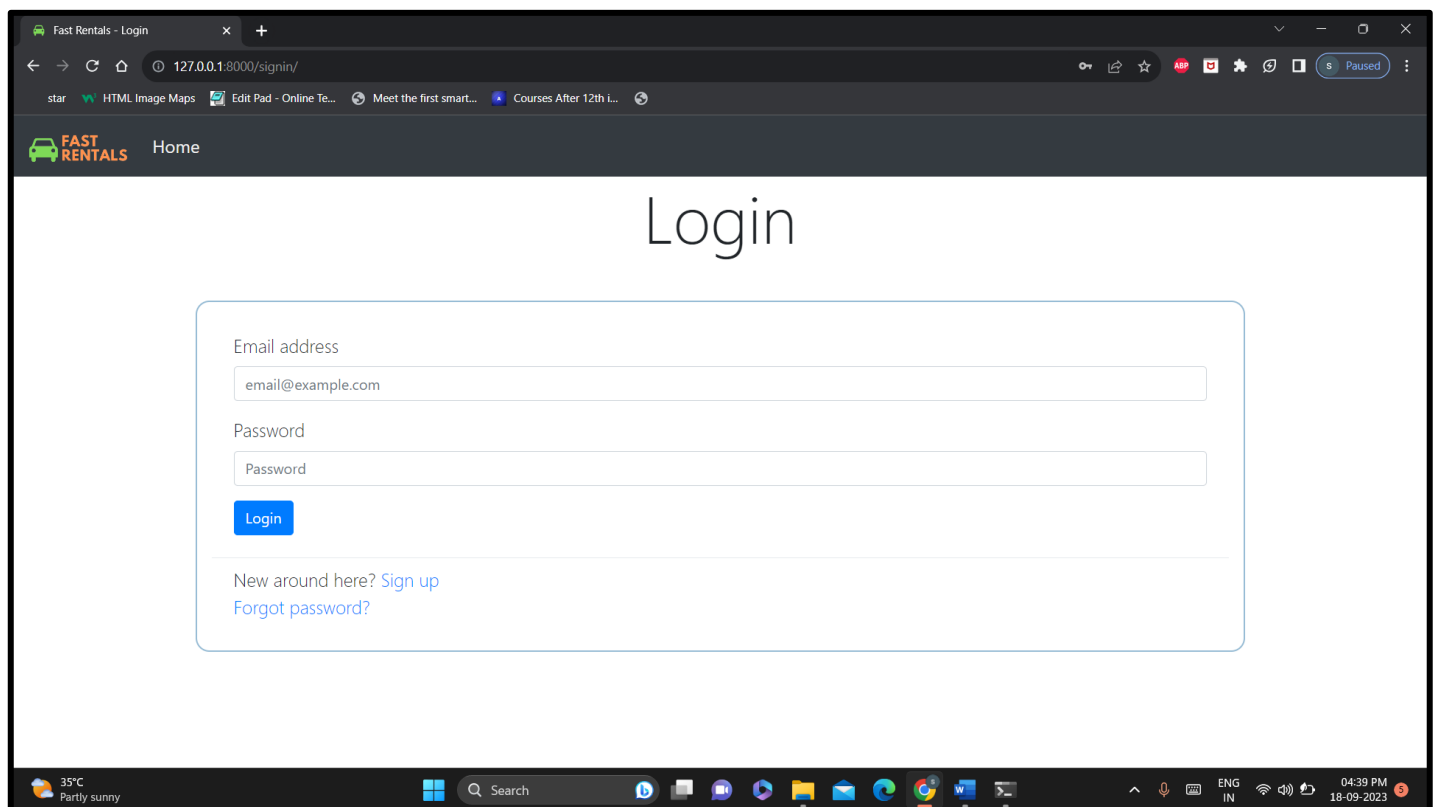
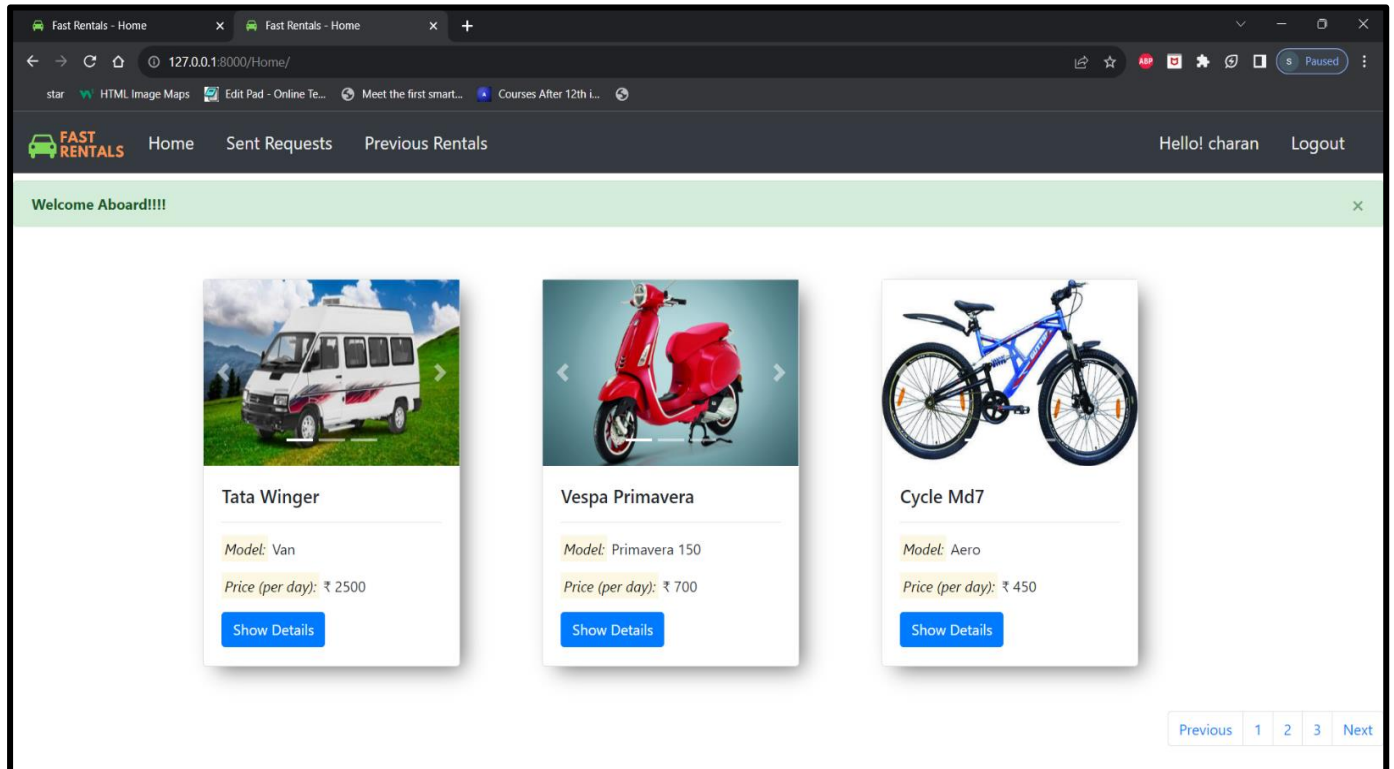
Rating Scale: 1 is lowest and 5 is highest rank

| | | | | | | |
|----|------------------------------------|---|---|---|---|---|
| 1 | Oral communication | 1 | 2 | 3 | 4 | 5 |
| 2 | Written communications | 1 | 2 | 3 | 4 | 5 |
| 3 | Proactiveness | 1 | 2 | 3 | 4 | 5 |
| 4 | Interaction ability with community | 1 | 2 | 3 | 4 | 5 |
| 5 | Positive Attitude | 1 | 2 | 3 | 4 | 5 |
| 6 | Self-confidence | 1 | 2 | 3 | 4 | 5 |
| 7 | Ability to learn | 1 | 2 | 3 | 4 | 5 |
| 8 | Work Plan and organization | 1 | 2 | 3 | 4 | 5 |
| 9 | Professionalism | 1 | 2 | 3 | 4 | 5 |
| 10 | Creativity | 1 | 2 | 3 | 4 | 5 |
| 11 | Quality of work done | 1 | 2 | 3 | 4 | 5 |
| 12 | Time Management | 1 | 2 | 3 | 4 | 5 |
| 13 | Understanding the Community | 1 | 2 | 3 | 4 | 5 |
| 14 | Achievement of Desired Outcomes | 1 | 2 | 3 | 4 | 5 |
| 15 | OVERALL PERFORMANCE | 1 | 2 | 3 | 4 | 5 |

Date:

Signature of the Supervisor

PHOTOS



Fast Rentals - HomeFast Rentals - HomeFast Rentals - Vehicle Details

127.0.0.1:8000/CheckAvailability/Tata-M416/

HTML Image MapsEdit Pad - Online Te...Meet the first smart...Courses After 12th L...

FAST RENTALS

HomeSent RequestsPrevious Rentals

Hello! charanLogout

Vehicle is Available (Send Request to book it)

Check Availability

Pickup date

Return date

Check Availability

Send Rent Request to Owner

Pickup Date

Return Date

Oct. 3, 2023

Oct. 4, 2023

Total days

Total Amount

2

5000

Advance Amount

1000

Send Request

Gear TypeManual

AboutWhen setting out on a trip - the twin factors of comfort and economy are the key drivers that operators look for. Tata winger has packaged both these features in its specially designed Winger vehicles.

Price₹2500 (per day)

35°CPartly sunny

Search

ENG IN04:43 PM18-09-2023

Fast Rentals - HomeFast Rentals - HomeFast Rentals - Rent Requests

127.0.0.1:8000/Manager/RentRequest/

HTML Image MapsEdit Pad - Online Te...Meet the first smart...Courses After 12th L...

FAST RENTALS

HomeYour RentalsCustomer's Rentals0Vehicles

Hello! satishLogout

Rent Requests

Pending0

Accepted

Declined

| # | Customer Email | Vehicle | Booking Date | Return Date | Number of Days | Total Amount | Advance amount | Feedback | Accepted by | Request Status |
|---|-------------------------|-----------|--------------|--------------|----------------|--------------|----------------|----------|--------------------|----------------|
| 1 | sidhu12@gmail.com | X-UZI | Oct. 1, 2023 | Oct. 2, 2023 | 2 | 10000 | 2000 | hello | satish23@gmail.com | Accepted |
| 2 | charanvarma12@gmail.com | Tata-M416 | Oct. 1, 2023 | Oct. 2, 2023 | 2 | 5000 | 1000 | hello | satish23@gmail.com | Accepted |

35°CPartly sunny

Search


ENG IN04:43 PM18-09-2023

127.0.0.1:8000/Owner/

star HTML Image Maps Edit Pad - Online Te... Meet the first smart... Courses After 12th i...

FAST RENTALS Home Your Rentals Customer's Rentals 0 Managers Vehicles View Analysis Hello! ritik Logout

Welcome Aboard!!!!




Tata Winger

Model: Van

Price (per day): ₹ 2500

Show Details




Vespa Primavera

Model: Primavera 150

Price (per day): ₹ 700

Show Details



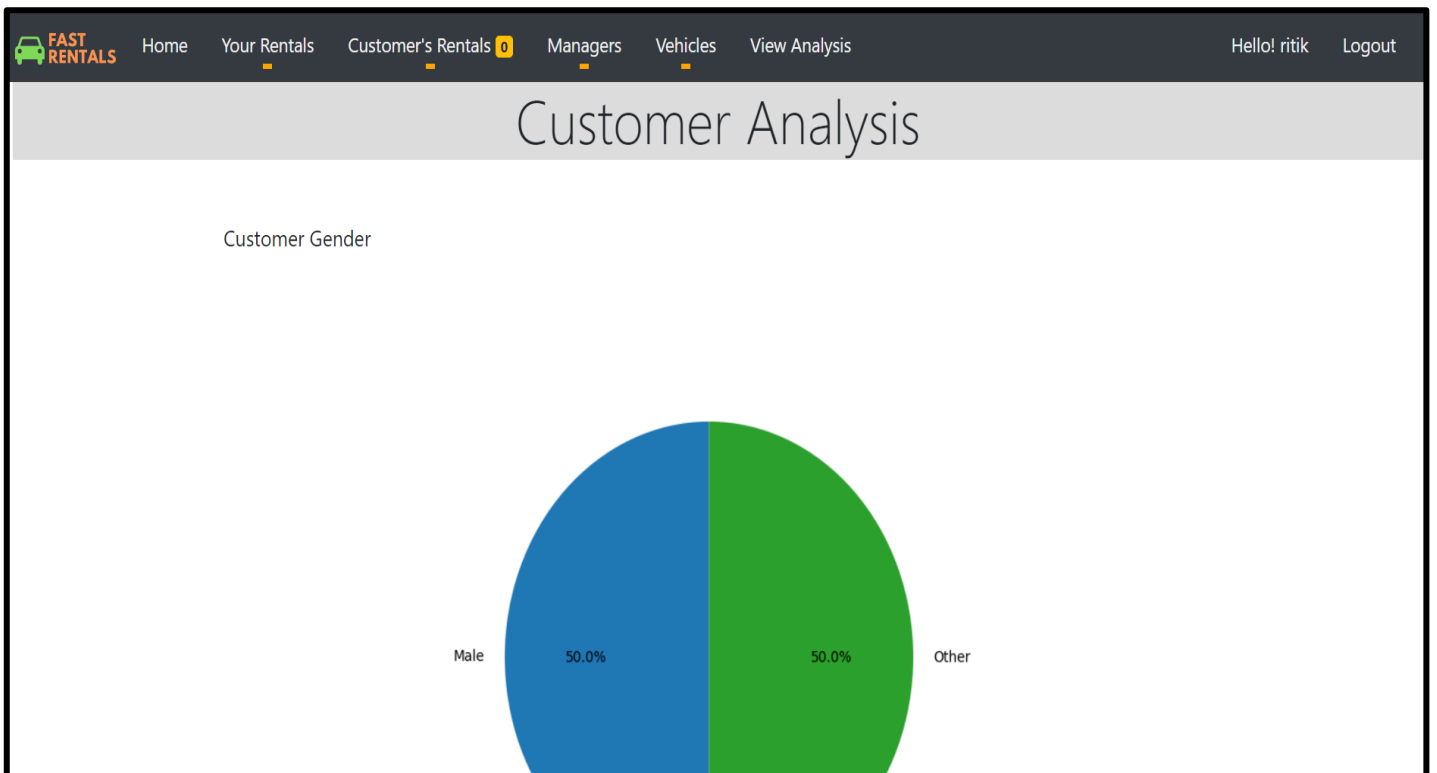
Cycle Md7


Model: Aero

Price (per day): ₹ 450

Show Details

Previous 1 2 3 Next





HomeYour RentalsCustomer's Rentals0ManagersVehiclesView Analysis

Hello! ritikLogout

Upload Vehicle

Vehicle Name

Q4

Company Name

Audi

Model

SUV

Vehicle Type

Bicycle

License Plate number

Mx-123

Type of Fuel

Fast Rentals - Home

Fast Rentals - Home

Site administration | Django site

127.0.0.1:8000/admin/

starHTML Image MapsEdit Pad - Online Te...Meet the first smart...Courses After 12th L...

Django administration

WELCOME, SIDHU VIEW SITE / CHANGE PASSWORD / LOG OUT

Site administration

AUTHENTICATION AND AUTHORIZATION

GroupsAddChange

UsersAddChange

CUSTOMERHOME

CustomersAddChange

MANAGER

ManagersAddChange

OWNER

OwnersAddChange

PERIODIC TASKS

ClockedAddChange

CrontabsAddChange

IntervalsAddChange

Periodic tasksAddChange

Recent actions

My actions

X X-123 : American Muscle Vehicle

X LP-X-350 : Bullet Vehicle

X charanvarma12@gmail.com: Ves-Pa150 Rent vehicle

X charanvarma12@gmail.com: LP-X-350 Rent vehicle

X charanvarma12@gmail.com: LP-X-350 Rent vehicle

X charanvarma12@gmail.com: BMW_d7 Rent vehicle

ritik23@gmail.com: img/Owner_License/WhatsApp_Im...02-20_at_22.07.02.jpeg Owner

sidhu12@gmail.com: img/Customer_License/WhatsApp_...02-20_at_22.07.02_rwpYBUz.jpeg Customer

natalchiwani2303@gmail.com: Mec...

35°C Partly sunny

Search

ENG IN

04:46 PM 18-09-2023

EVALUATION

MARKS STATEMENT
(To be used by the Examiners)
INTERNAL ASSESSMENT STATEMENT

Name of the Student:

Programme of Study:

Year of Study:

Group:

Register No/H.T. No:

Name of the College:

University:

| <i>S.no</i> | <i>Evaluation Criterion</i> | <i>Maximum Marks</i> | <i>Marks Awarded</i> |
|-------------|-----------------------------|----------------------|----------------------|
| 1. | Activity Log | 25 | |
| 2. | Internship Evaluation | 50 | |
| 3. | Oral Presentation | 25 | |
| | GRAND TOTAL | 100 | |

Date:

Signature of the Faculty Guide

Certified by

Date:

Signature of the Head of the Department/Principal

Seal: