Government Polytechnic Jalgaon

PROJECT REPORT ON INTERNSHIP CARRIED OUT AT PASSION SOFTWARE SOLUTION, JALGAON

Mentor: -

Asha Chaudhary

Report By: -

Snehal Ramkishan Sharma

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

Certificate

This is to certify that **Snehal Ramkishan Sharma** Roll No.__ **Student of CO5K** of **5th** Semester of Diploma in **Computer Engineering** of **Government Polytechnic, Jalgaon** (Code:0018) has completed the **Project Report** satisfactorily in the subject **Internship (12 WEEKS) [315004]** for the Academic Year 2025-2026 as prescribed in the curriculum

Place: **Jalgaon**

Enrollment no: **23640220201**
Seat no:

Subject Teacher

External Examiner

Head of the Department

Principal

Seal of Institution

GOVTERNMENT POLYTECHNIC JALGAON

-SUBMISSION-

I **Snehal Ramkishan Sharma** as student of **5th** Semester of the Programme **Computer Engineering** humbly submit that we have completed from time to time the Project work as described in this report by our own skills and study in academic year **2025 - 2026** as per instructions and guidance of **Prof. Asha Chaudhary**.

And that following students were associated with me for this work, However, quantum of my contribution has been approved by the Lecturer. And that I have not copied the report on its any appreciable part from Any other literature in contravention of the academic ethics.

Date: Signature of Student

PART-B Project Report

Internship report

1. Rationale
   Internship report.

2. Aim/Benefits of the micro-project
   To create the report of Internship and projects carried in it.

3. Course Outcome Addressed
   a) Observe time/resource management and industrial safety aspects.
   b) Acquire professional experience of industry environment.
   c) Establish effective communication in working environment.
   d) Prepare report of assigned activities and accomplishments.

Teachers Evaluation Sheet

Name of Student: - Snehal Ramkishan Sharma

Enrolment No.: - 23640220201

Name of Project: - Internship Report

Course Title: - Internship (12 WEEKS)

Code: - 315004

Title of Micro-Project: - Internship Report

Course Outcome Addressed

e) Observe time/resource management and industrial safety aspects.
f) Acquire professional experience of industry environment.
g) Establish effective communication in working environment.
h) Prepare report of assigned activities and accomplishments.

Evaluation as per Suggested Rubric Assessment of Micro-Project

Characteristics To Be Assessed	Poor	Average	Good	Excellent
Relevance to the Course				
Literature Review/Information Collection				
Analysis of Data and Representation				
Completion of Target As per Project Proposal				
Report Preparation				
Presentation of the Micro Project				

Micro-Project Evaluation Sheet

Process and product Assessment	Individual Presentation/viva	Total Marks

Abstract

The **Internship course** is introduced to all diploma programs with the objective of developing the traits of **industry culture** among students before they enter into the world of industry. By exposing and interacting with the real-life industrial setting, students will appreciate and understand the actual working of an industry, as well as the **best practices adopted in industry**.

Career paths focus on **job role-based training** aligned to the market demand. Students can access a number of different career offerings and select the one that supports their **career goals** most effectively.

Through the **blended learning approach**, students can learn at their own pace, in a way that best suits their individual learning style. The experience also allows learners to interact with content using a **classroom-based environment**.

Acknowledgement

The successful completion of this project marks the beginning of an ongoing learning experience of transforming ideas and concepts into real-life practical systems.

This project has been a valuable learning experience for me at every stage. It has also given me the confidence to work in a professional environment. I believe that the knowledge and skills gained during this project will greatly benefit my future endeavours.

First and foremost, I would like to express my sincere gratitude to **Dr. Parag Patil, Principal, Government Polytechnic, Jalgaon**, for providing me with the opportunity to carry out this project work in the institute and for his continuous support and encouragement.

I am also deeply thankful to **Dr. P. P. Chaudhari, Head of the Department of Computer Engineering**, for his valuable guidance and motivation throughout the course of this project.

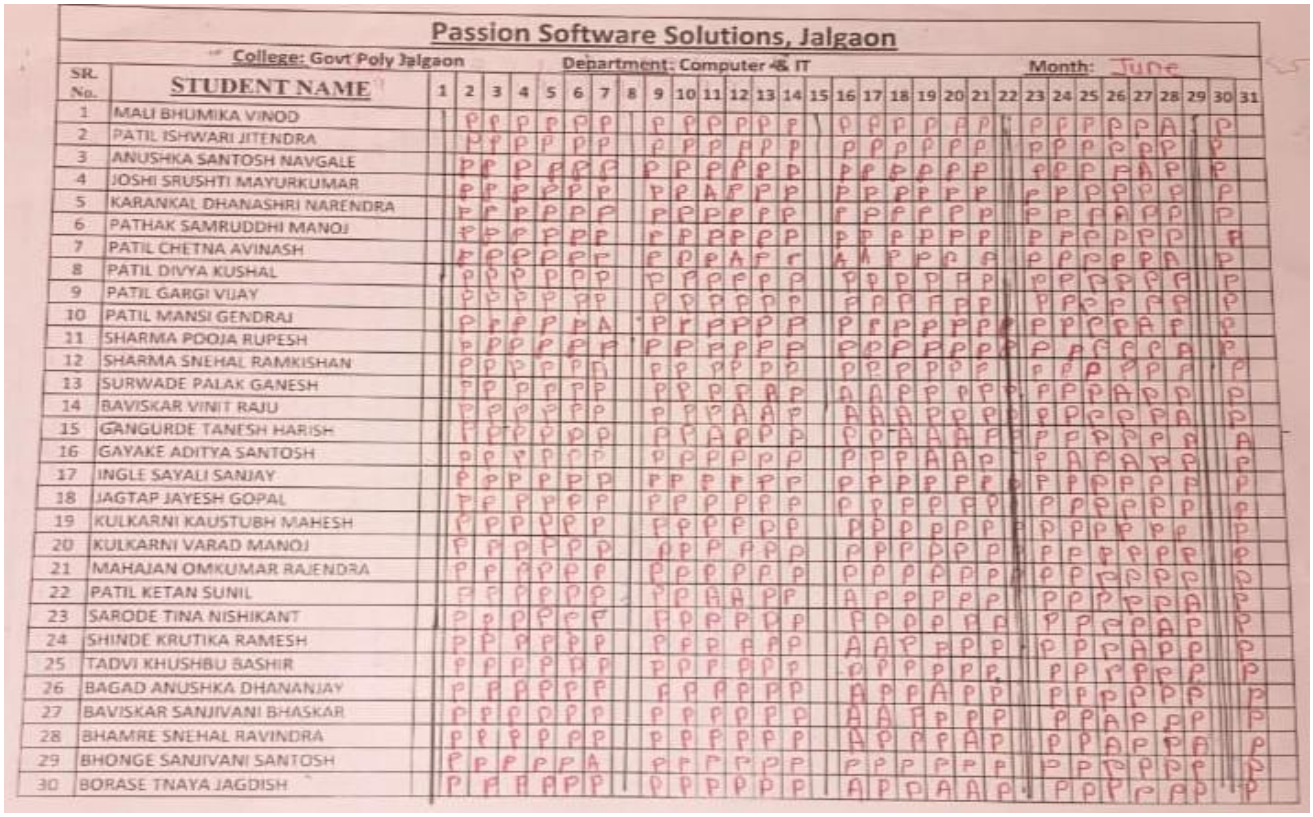
With heartfelt appreciation, I extend my sincere thanks to my **mentor, Asha Chaudhary Ma'am**, for his active involvement, constant guidance, and encouragement, without which the successful completion of this project would not have been possible.

I am equally grateful to my **Class Teacher, Dr. Ashwini Lokhande Ma'am**, for her support, valuable suggestions, and encouragement during the project work.

Finally, I am highly thankful to **Mr. Manoj Kumavat Sir** at Passion Software Solution for taking a keen interest in my project, providing insightful suggestions, and helping me directly or indirectly in its successful completion.

Certificate

Attendance Record



Passion Software Solutions, Jalgaon

College: Govt Poly Jalgaon — Department: Computer & IT — Month: June

SR. No.	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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2	PATIL ISHWARI JITENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
3	ANUSHKA SANTOSH NAVGALE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
4	JOSHI SRUSHTI MAYURKUMAR	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
5	KARANKAL DHANASHRI NARENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
6	PATHAK SAMRUDDHI MANOJ	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
7	PATIL CHETNA AVINASH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
8	PATIL DIVYA KUSHAL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
9	PATIL GARGI VIJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
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12	SHARMA SNEHAL RAMKISHAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
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15	GANGURDE TANESH HARISH	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P			
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19	KULKARNI KAUSTUBH MAHESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
20	KULKARNI VARAD MANOJ	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
21	MAHAJAN OMKUMAR RAJENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
22	PATIL KETAN SUNIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
23	SARODE TINA NISHIKANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
24	SHINDE KRUTIKA RAMESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
25	TADVI KHUSHBU BASHIR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
26	BAGAD ANUSHKA DHANANJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
27	BAVISKAR SANJIVANI BHASKAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P			
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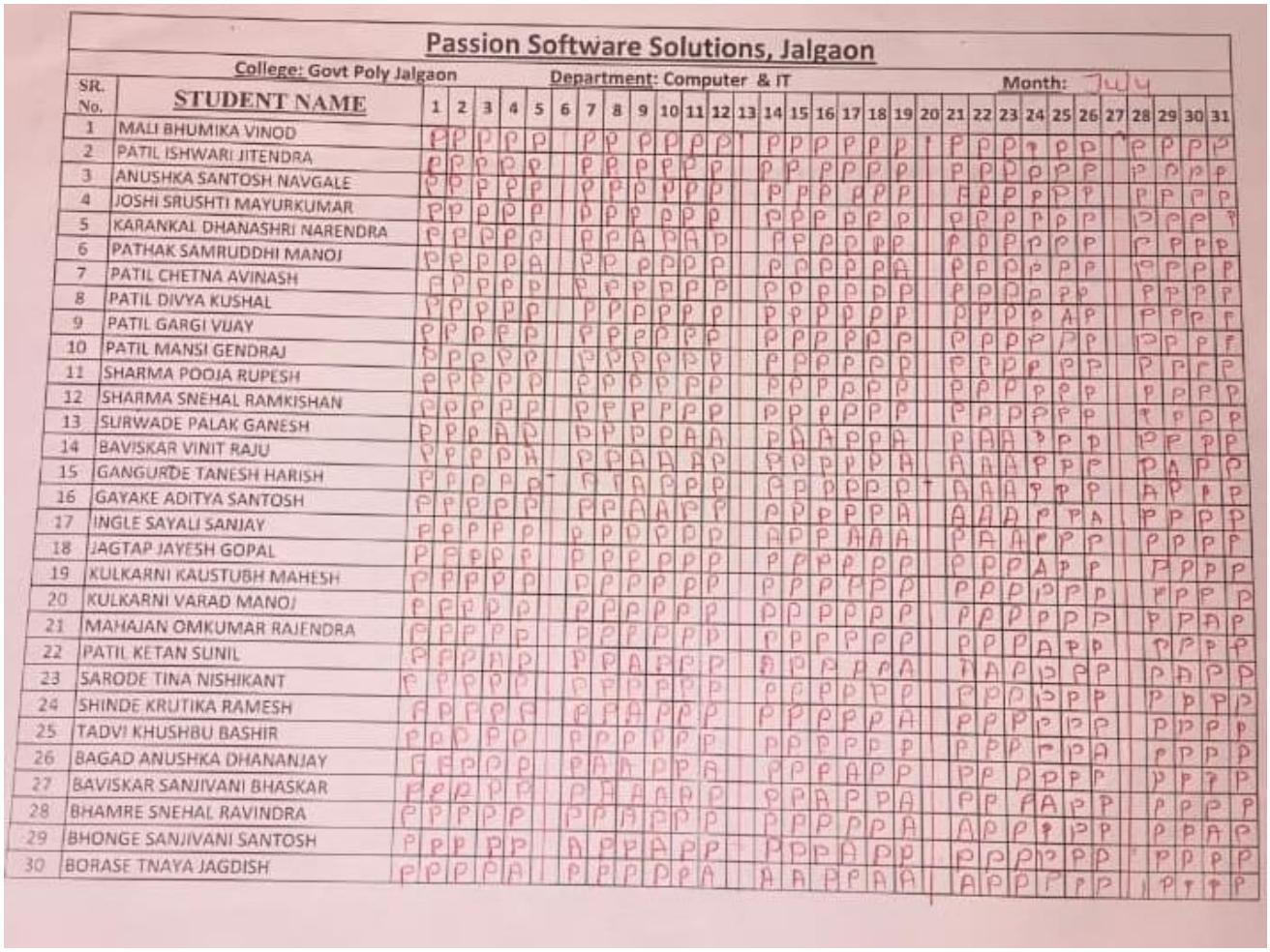

Passion Software Solutions, Jalgaon

College: Govt Poly Jalgaon — Department: Computer & IT — Month: July

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Passion Software Solutions, Jalgaon

College: Govt Poly Jalgaon Department: Computer & IT Month: August

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28	BHAMRE SNEHAL RAVINDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
29	BHONGE SANJIVANI SANTOSH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
30	BORASE TNAYA JAGDISH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							

Internship 2025

Weekly Dairy

Name: Snehal Ramkishan Sharma.

Enrollment no. 23640220201

Semester: 5th

Academic Year: 2025-26

Branch: Computer Engineering

Industry name: Passion Software Solutions, Jalgaon.

Name of Faculty Mentor: Prof. Asha Chaudhary.

Name of Industry Supervisor: Manoj A Kumavat.

Designation of Supervisor: CEO & Director

Week-1

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, June 2 2025	Topics Covered: HTML: Introduction of HTML, Structure of HTML, Formatting and Heading Tags		
Tuesday, June 3 2025	Topics Covered: HTML: Attributes of Body Tag, Unordered List JavaScript: Introduction, History, Datatypes, Output Statements		
Wednesday, June 4 2025	Topics Covered: HTML: Ordered List, Description List, Nested List, Images in HTML, Anchor Tag		
Thursday, June 5 2025	Topics Covered: HTML: Tables, Table Attributes, Row span & Colspan JavaScript: Variable Values Printing, Input from User, Operaators in JavaScript, Typecasting		
Friday, June 6 2025	Topics Covered: HTML: Layouts Making Using Table JavaScript: Programs on Assignment, Relational, Logical, Increment & Decrement Operators		
Saturday, June 7 2025	Topics Covered: HTML: Marquee Tag JavaScript: Program on Conditional Operator, Decision Control Structure: if statement Saturday Activates Task: Self Introduction		

Week-2

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, June 9 2025	Topics Covered: HTML: Frameset, Frameset Rows and Cols JavaScript: Decision Control Structure: If-Else, Nested If-Else		
Tuesday, June 10 2025	JavaScript: Ladder Else-If Extra Practice Session		
Wednesday, June 11 2025	Topics Covered: HTML: Form Tag, Attributes of Form Tag, Input Tag, Input Tag Type Attribute JavaScript: Introduction to Loops, Types of Loops		
Thursday, June 12 2025	Topics Covered: HTML: Form using Table, Audio-Video in HTML JavaScript: While Loop, For Loop		
Friday, June 13 2025	JavaScript: Nested for Loop Extra Practice Session		
Saturday, June 14 2025	Saturday Activates Task: PPT Presentation		

Week-3

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, June 16 2025	Topics Covered: CSS: Introduction to CSS, Types of CSS, Colors in CSS, Ways to Insert CSS JavaScript: Nested for Loop, Patterns Using Loop		
Tuesday, June 17 2025	Topics Covered: CSS: Backgrounds in CSS, Border Styles in CSS, Semantic Tags, Margins in CSS JavaScript: do-while Loop, break and Continue, Switch Case		
Wednesday, June 18 2025	Topics Covered: CSS: Padding in CSS, Login Page Designing		
Thursday, June 19 2025	Topics Covered: CSS: Navigation Bar Designing using CSS, Links in CSS, Animation in CSS JavaScript: Functions in JavaScript, User-defined Functions in JavaScript		
Friday, June 20 2025	Topics Covered: CSS: Program on Animation, Animation Direction, Transitions in CSS JavaScript: Array in JavaScript, Calling User-Defined Function from JavaScript (Other File)		
Saturday, June 21 2025	Extra Practice Session Saturday Activates Task: Aptitude Test		

Week-4

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, June 23 2025	Topics Covered: CSS: CSS Text properties, Alignment, Direction, Transformation, Text Shadow, Font style JavaScript: JavaScript Array Methods & Properties, Array Destructuring, Array Map, Array Filter, Array Reduce		
Tuesday, June 24 2025	Topics Covered: CSS: Cursors in CSS, Text-Shadow & Box-Shadow JavaScript: Functions Types in JavaScript (Anonymous Functions, Arrow Functions, Callback Function)		
Wednesday, June 25 2025	Topics Covered: CSS: Positions in CSS, Z-index, Display Properties JavaScript: Object Properties and Methods		
Thursday, June 26 2025	Topics Covered: CSS: Grids in CSS, Gap between Tiles JavaScript: Event Handling, Types of Events in JavaScript(OnClick, OnLoad, OnSubmit, OnMouseover)		
Friday, June 27 2025	Topics Covered: CSS: Grid Lines in CSS JavaScript: OnChange Event, getElementById() Function		
Saturday, June 28 2025	Extra Practice Session Saturday Activates Task: Webpage Designing		

Week-5

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, June 30 2025	Topics Covered: CSS: Justify Content Property, Align Content Property, JavaScript: JavaScript Object Methods, JavaScript Object Constructor		
Tuesday, July 01 2025	Topics Covered: CSS: Media Quires in CSS, Breakpoints in Media Quires, CSS Media Types, CSS Common Media Features, Syntax of Media Quires JavaScript: JSON and Local Storage, JSON Syntax Rules, JSON File Creation, Program On JSON		
Wednesday, July 02 2025	Topics Covered: CSS: Flex Property in CSS, Flex-Direction & Flex Wrap JavaScript: Stringify JavaScript Object, Windows LocalStorage		
Thursday, July 03 2025	Topics Covered: JavaScript: DOM – Document Object Model		
Friday, July 04 2025	Topics Covered: JavaScript: DOM – Document Object Model (Inner HTML, Inner Text, CreateElement, Remove, AppendChild, Append)		
Saturday, July 05 2025	Extra Practice Session Saturday Activates Task: Fun Activity (Cricket Match)		

Week-6

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, July 07 2025	Extra Practice Session Visit: Jalgaon Airport		
Tuesday, July 08 2025	Topics Covered: Introduction To MERN, Advantages Disadvantages Applications of MongoDB, ExpressJS, ReactJS, NodeJS		
Wednesday, July 09 2025	Topics Covered: Installation of NodeJS, Project Creation in VS Code		
Thursday, July 10 2025	Topics Covered: ReactJS: Render in ReactJS, JSX Files in ReactJS Extra Practice Session		
Friday, July 11 2025	Topics Covered: ReactJS: Introduction to Class and Functional Components of ReactJS Extra Practice Session		
Saturday, July 12 2025	Extra Practice Session Saturday Activates Task: C Technical Quiz		

Week-7

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, July 14 2025	Topics Covered: ReactJS: Programs Using Functional and Class Components, Render Method in Class Components		
Tuesday, July 15 2025	Topics Covered: ReactJS: Props in ReactJS, Props using Class and Functional Components, Arguments Passing Through Props, One to Another Component Argument Passing, Passing More Than One Arguments		
Wednesday, July 16 2025	Topics Covered: ReactJS: Styling ReactJS Using CSS, Inline CSS Styling using ReactJS, CSS Stylesheets using ReactJS, CSS Modules Using ReactJS		
Thursday, July 17 2025	Topics Covered: ReactJS: Event Handling Using ReactJS, States in ReactJS, States vs Props, UseState Hook Using Functional Component in ReactJS		
Friday, July 18 2025	Topics Covered: ReactJS: UseState Hook Using Class Component in ReactJS, Conditional Rendering in ReactJS		
Saturday, July 19 2025	Extra Practice Session Saturday Activates Task: Physical Activities		

Week-8

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, July 21 2025	Topics Covered: ReactJS: List Generation Using map(), filter(), reduce() functions in ReactJS, Introduction to Lifecyle Methods in ReactJS		
Tuesday, July 22 2025	Topics Covered: ReactJS: Programs on LifeCycle Methods using componentDidMount(), componentWillUnmount(), componentDidUpdate() in ReactJS		
Wednesday, July 23 2025	Topics Covered: ReactJS: Hooks in ReactJS, Introduction to UseEffect & UseContext Hooks in ReactJS, Program on UseEffect Hook in ReactJS		
Thursday, July 24 2025	Topics Covered: ReactJS: Program on UseContext Hook in ReactJS, Router's in ReactJS		
Friday, July 25 2025	Topics Covered: NodeJS: Introduction To NodeJS, Applications of NodeJS, NodeJS Application Creation, Server Creation in NodeJS, Package Creation Using NodeJS, Nodemon in NodeJS, Auto Server Restart Using Nodemon in NodeJS		
Saturday, July 26 2025	Extra Practice Session		

Week-9

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, July 28 2025	Topics Covered: NodeJS: Accessing Browser Output using NodeJS Code in NodeJS, SQL Connection using NodeJS, Creating Database using NodeJS, Executing Query using NodeJS, Inserting Record in Table using NodeJS, Obtaining Result Using NodeJS		
Tuesday, July 29 2025	Topics Covered: ExpressJS: Introduction to ExpressJs, Need of ExpressJS, Creating ExpressJS Server, get() & listen() Routers in ExpressJS		
Wednesday, July 30 2025	Topics Covered: ReactJS: next() method in ExpressJS, Frontend To Backend Data Forwarding using Get() Router, Frontend to backend Data Forwarding By Post() Router using Body-Parser		
Thursday, July 31 2025	Topics Covered: Backend : Frontend To Sever Data Passing Using Different States, Hooks, Methods, Routers Starting of Project using MERN Stack		
Friday, August 01 2025	Topics Covered: ExpressJS: async And await promises in ExpressJS, Axios And Cors in ExpressJS		
Saturday, August 02 2025	MongoDB: Introduction to MongoDB, Mongoose in MongoDB, Sending Data from Frontend to Server to Backend to Database		

Week-10

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, August 04 2025	Topics Covered: MongoDB: CRUD Operations using MongoDB Project: Completion of Project using MERN Stack		
Tuesday, August 05 2025	Topics Covered: Jquery: Jquery Fading effects, ready() and click() functions in JQuery		
Wednesday, August 06 2025	Topics Covered: Jquery : Jquery Sliding effects: SlideIn(), SlideOut(), SlideinOut()		
Thursday, August 07 2025	Practice Sessions and Project Development.		
Friday, August 08 2025	Topics Covered: Practice Sessions and Project Development.		
Saturday, August 09 2025	Raksha Bandhan Holiday		

Week-11

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, August 11 2025	Practice Sessions and Project Development.		
Tuesday, August 12 2025	Topics Covered: GSAP: Introduction to GSAP: i) gsap.from() ii) gsap.to() iii) gsap.fromTo()		
Wednesday, August 13 2025	Topics Covered: GSAP: Timeline function in GSAP		
Thursday, August 14 2025	Topics Covered: GSAP: Designing pages using it.		
Friday, August 15 2025	Independence Day Holiday.		
Saturday, August 16 2025	Project Competition: Presentation of ITR Project.		

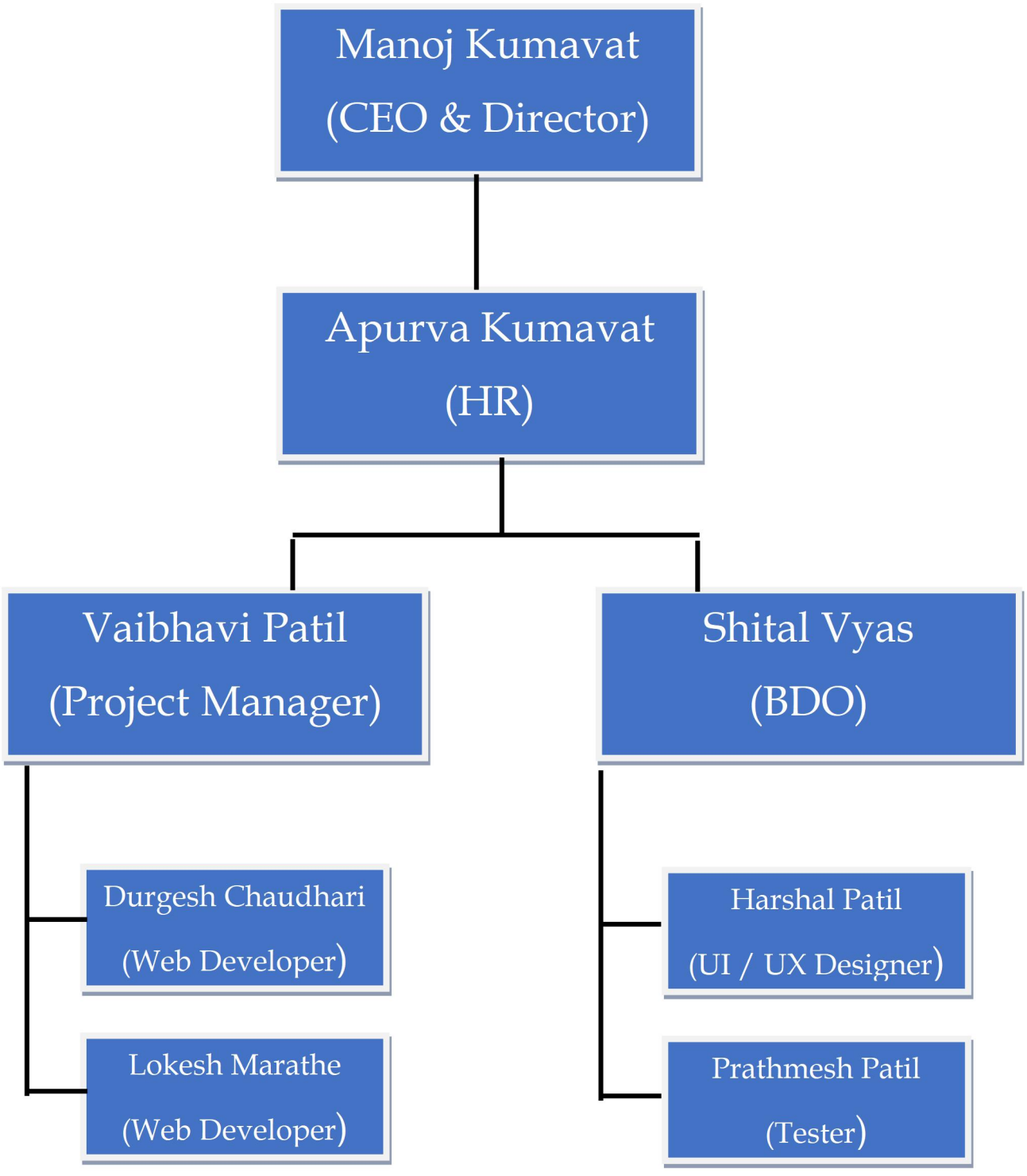
Week-12

Day & Date	Discussion Topics / Activity	Corrections and Remarks	Signature of Industry Mentor
Monday, August 18 2025	Practice Sessions and Project Development.		
Tuesday, August 19 2025	Final Project Viva and Presentations		
Wednesday, August 20 2025	Making changes in Project according to suggestions given during Viva		
Thursday, August 21 2025	Making changes in Project according to suggestions given during Viva		
Friday, August 22 2025	Making changes in Project according to suggestions given during Viva		
Saturday, August 23 2025	Final Project Confirmation and Certificate Distribution.		

TABLE OF CONTENTS

CHAPTER 1:

Organizational Structure of Passion Software Solutions and General Layout



CHAPTER 2:

Introduction of Passion software solutions, Types of Products and Services, History, Number of Employees

INTRODUCTION TO INDUSTRY

Passion Software
SOLUTIONS
THE INSTITUTE OF SOFTWARE
DEVELOPMENT TRAINING CENTER, JALGAON

Passion software solution established in 2020 to develop the web and software development company IT consultancy development center in Jalgaon in Maharashtra.

We are team of enthusiast team of Designer, Developer & Digital Marketers, we are passionate about bringing dreams into reality, achieving new goals everyday towards rapidly changing and growing world with technology.

we constantly thriving in this competitive world for bringing best solution for our customer. We constantly make new strategy & find ways for our customer to help them stand out in this competitive era.

SERVICES & PRODUCTS

UI & UX Design

At Passion Software Solutions, we understand that a well-designed user interface (UI) and user experience (UX) are crucial for the success of any digital product. Our expert team is dedicated to creating intuitive, engaging, and visually appealing interfaces that not only meet but exceed user expectations.

Our UI and UX Design Services Include:

1. **User Research and Analysis**
2. **Wireframing and Prototyping**
3. **Visual Design**
4. **Interaction Design**
5. **Usability Testing**
6. **Responsive Design**
7. **Collaborative Approach**

At Passion Software Solutions, our goal is to create designs that not only look great but also provide a seamless and enjoyable user experience. We strive to deliver solutions that are both functional and aesthetically pleasing, helping your product stand out in the competitive market.

Web Design & Development

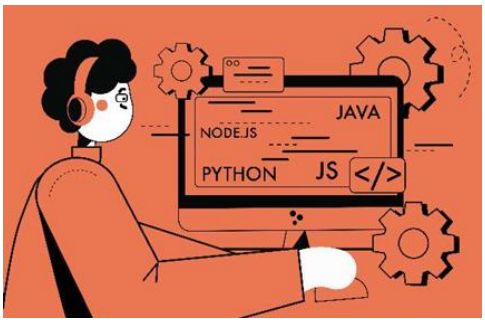
Passion Software Solutions delivers exceptional web design and development services, combining creativity and technical skill to create stunning, user-friendly websites.

Front-End Development:

Clean, efficient code with HTML5, CSS3, JavaScript, React, and Angular.

Back-End Development:

Robust solutions using Node.js, Django, Ruby on Rails, and PHP.



Digital Marketing

Boost your brand awareness with our digital marketing services. We provide a wide range of digital marketing services:

I. **SEO**: Improve search rankings and visibility.
II. **PPC Advertising**: Targeted campaigns on Google and social media.
III. **Social Media Marketing**: Engage users on platforms like Facebook, Instagram, Twitter, and LinkedIn.
IV. **Content Marketing**: Create high-quality content to attract and retain your audience.
V. **Email Marketing**: Personalized campaigns to nurture leads.
VI. **CRO**: Optimize website elements to increase conversions.

SEO

Website is a sales tool for your business. Ranking high on Google builds your reputation in the customer's mind.

Explore The Services We Offer for You

We provide a wide range of solutions from building your identity to showcasing your business to your audience. We offer services including:

- Website Development
- Mobile Application
- Digital Marketing
  - Social Media Marketing (any platform)
  - Social Media Management
  - Search Engine Optimization (SEO)
  - Search Engine Marketing (SEM)
  - Google AdWords

CHAPTER 3:

Types of Major Equipments/raw materials/ instruments/machines/ hardware/software used in industry with their specifications, approximate cost, specific use and routine maintenance done

Computer Systems:

Count: 40

Configuration:

- Processor: Intel i5
- Memory: 4GB
- HDD: 240GB
- OS:
  - Ubuntu
  - Windows 10

Softwares:

Editors:

- VS Code
- Sublime Text

Server:

- ExpressJS

Technology listing

- HTML
- CSS
- JavaScript
- ReactJS
- NodeJS
- MongoDB

CHAPTER 4:

Development Process And Manufacturing techniques and methodologies and Software development procedures

Software Development Process

- **Communication**
  - This is the first step where the user initiates the request for a desired software product. He contacts the service provider and tries to negotiate the terms.
  - He submits his request to the service-providing organization in written format.

- **Planning**
  - The team comes up with a rough plan of the software process. At this step, the team analyzes if software can be made to fulfil all requirements of the user and if there is any possibility of the software being no more useful.
  - It is found out if the project is financially, practically, and technologically feasible for the organization to take up. There are many algorithms available which help developers conclude the feasibility of a software project.

- **Designing**
  - Next step is to bring down the whole knowledge of requirements and analysis on the desk and design the software product. The inputs from users and information gathered in the requirement-gathering phase are the inputs of this step.
  - The output of this step comes in the form of two designs: logical design and physical design. Engineers produce metadata and data dictionaries, logical diagrams, dataflow diagrams, and in some cases pseudo codes.

- **Coding**
  - This step is also known as the programming phase. The implementation of the software design starts in terms of writing program code in the suitable programming language and developing error-free executable programs efficiently.

CHAPTER 5:

Testing of Hardware/Software Along with Testing of System Configuration, Network and Necessary Tools for Software Development.

TESTING:

An estimate says that 50% of the whole software development process should be tested. Errors may ruin the software from a critical level to its own removal. Software testing is done while coding by the developers, and thorough testing is conducted by testing experts at various levels of code such as module testing, program testing, product testing, in-house testing, and testing the product at the user's end. Early discovery of errors and their remedy is the key to reliable software.

TOOLS USED FOR SOFTWARE TESTING

MANUAL TESTING:

Manual testing is the process of using the functions and features of an application as an end user would in order to verify the software is working as required. With manual testing, a tester manually conducts tests on the software by following a set of pre-defined test cases. In order to successfully conduct manual tests, you first need to understand the requirements of the software. This is a crucial part of manual testing as the main goal is to make sure the software is bug free.

SELENIUM:

Selenium is a portable framework for testing web applications. Selenium provides a playback (formerly also recording) tool for authoring functional tests without the need to learn a test scripting language (Selenium IDE). It also provides a test domain-specific language to write tests in a number of popular programming languages, including C#, Groovy, Java, Perl, PHP, Python, Ruby and Scala. The tests can then run against most modern web browsers. Selenium deploys on Windows, Linux, and macOS platforms.

CHAPTER 6:

Safety procedures followed and safety gears used by industry(Preventive Measures – Software Development Process)

- Failure modes, including hardware, software, human and system are addressed in the design of the software.
- Sound software engineering practices and documentation are used in the development of the software.
- Software is designed for human machine interface, ease of maintenance and modification or enhancement.
- Software with safety-critical functionality must be thoroughly verified with objective analysis

CHAPTER 7:

Particulars of Practical Experiences in Industry/Organization if any in Production/Assembly/Testing/Maintenance

TECHNOLOGIES USED DURING TRAINING

At the site of our industry, there were expected numbers of computer systems available, each connected to main server sharing the network. Screen projector and display setup enhanced the learning experience.

Overall, front end, back-end and middle ware layers were learned during this period, letting us learn few programming languages

❖ WHAT WE HAVE LEARNED?

- HTML
- CSS
- JavaScript
- ReactJS
- NodeJS
- MongoDB
- ExpressJS

in purpose of learning to make interactive webpages.

❖ HTML

HTML stands for **Hyper-Text Markup Language**. It is used to design web pages using a markup language. HTML is the combination of **Hypertext** and **Markup language**.

Hypertext defines the link between web pages. A markup language is used to define the text document within the tag, which defines the structure of web pages.

This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly.

Most markup languages (e.g., HTML) are human-readable. The language uses **tags** to define what manipulation has to be done.

❖ CSS

Cascading Style Sheets (CSS), referred as **CSS**, is a **simple language** intended to simplify the process of making web pages presentable.
CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the **HTML** that makes up each web page. It describes how a web page should look: it prescribes colors, fonts, spacing, and much more.
In short, you can make your website look however you want.
CSS lets developers and designers define how it behaves, including how elements are positioned in the browser.
While **HTML** uses tags, **CSS** uses rulesets. **CSS** is easy to learn and understand, but it provides powerful control over the presentation of an HTML document.

❖ JavaScript

JavaScript (JS) is a **high-level, lightweight, and interpreted programming language** that is primarily used to make web pages **interactive and dynamic**. It was developed by **Brendan Eich** in 1995 while working at Netscape. Today, JavaScript is one of the **core technologies of the web**, alongside **HTML** and **CSS**. JavaScript allows developers to **add behavior to web pages**, such as responding to user actions, validating forms, creating animations, and updating content dynamically without reloading the entire page. Modern JavaScript is not limited to the browser—it can also run on servers (with **Node.js**) and in mobile and desktop applications.

❖ Python

Python is a high-level, interpreted, and general-purpose programming language created by **Guido van Rossum** in 1991. It emphasizes **readability, simplicity, and ease of learning,** making it popular among beginners and professionals alike. Python supports multiple programming paradigms, including **procedural, object-oriented, and functional programming.** It comes with a **large**

standard library and extensive **third-party packages,** which allow developers to build web applications, data analysis tools, AI models, automation scripts, and more. Python is **cross-platform**, meaning it runs on Windows, Linux, and macOS. Its dynamic typing, automatic memory management, and strong community support make it highly versatile and widely adopted in industry and academia.

- **Django**

Django is a free and open-source **Python-based web framework** designed for rapid development and clean, pragmatic design. It follows the **Model-View-Template (MVT)** architectural pattern, which separates data, business logic, and presentation for better maintainability. Django comes with built-in features like **ORM (Object-Relational Mapping), authentication, admin panel, and routing,** reducing the need for repetitive coding. It emphasizes **reusability of components, security,** and **scalability,** making it suitable for both small and large web applications. With Django Templates, developers can create **dynamic HTML pages** easily by combining backend data with frontend layouts. It also supports multiple databases like **SQLite, PostgreSQL, and MySQL**, and integrates seamlessly with modern frontend technologies if needed.

- **SQLite3**

SQLite3 is a lightweight, open-source **relational database management system (RDBMS)** that comes bundled with Python and Django by default. Unlike other databases, it does not require a separate server process; instead, it stores the entire database in a single file on the disk. It uses **SQL (Structured Query Language)** for defining and manipulating data in the form of **tables, rows, and columns**. Because of its simplicity, zero-configuration, and low memory usage, SQLite is widely used for **small to medium-sized applications, prototyping, and testing**. In Django projects, SQLite3 is the default database, making it easy for beginners to start development quickly. It is **fast, reliable, and cross-platform,** though not as scalable as PostgreSQL or MySQL for very large applications.

CHAPTER 8:

Detailed report of the tasks undertaken (during the training).

DigiVote: Digital Election Portal:-

During my Internship at Passion Software Solutions, Jalgaon. We team of two members Snehal Sharma and Mokshada Patil were assigned the task to create a College Alumni.

The idea behind this project was to build a secure, transparent, and user-friendly platform where voters can cast their votes digitally while ensuring authenticity and fairness.

- Tech Stack Used

  - Frontend: HTML, CSS, JavaScript
  - Backend: Python,Django
  - Database: SQLite
  - Authentication: Role-based signup and login using Django authentication system

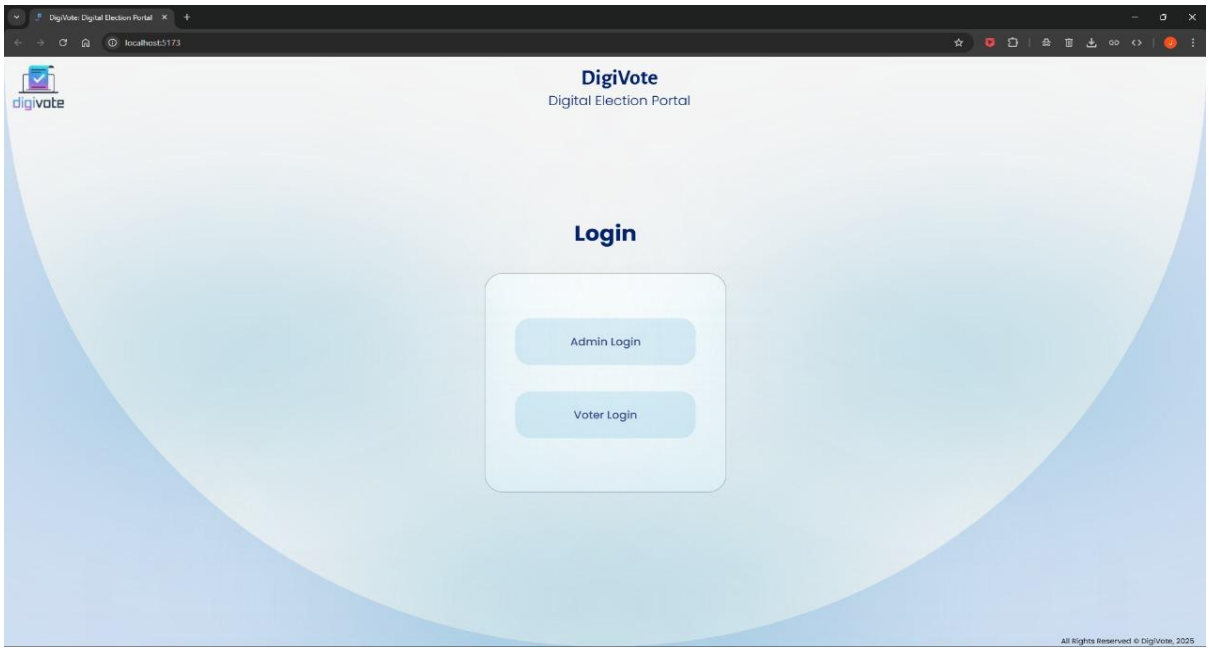
- Key Features

  - Role-Based Authentication – Teacher and Student login ensures only authorized users can access their respective dashboards.
  - Teacher Dashboard (Admin Role) – Manage events, assignments, notes, attendance, and courses; add or delete data easily.
  - Student Dashboard – Register for events, download assignments/notes, view attendance, and participate in campus activities.
  - Simple & Secure Data Handling – Teachers can delete old records and add new ones; students can only view/download, ensuring data integrity.
  - sProtected Routes – Only logged-in teachers or students can access their respective dashboards, preventing unauthorized access.

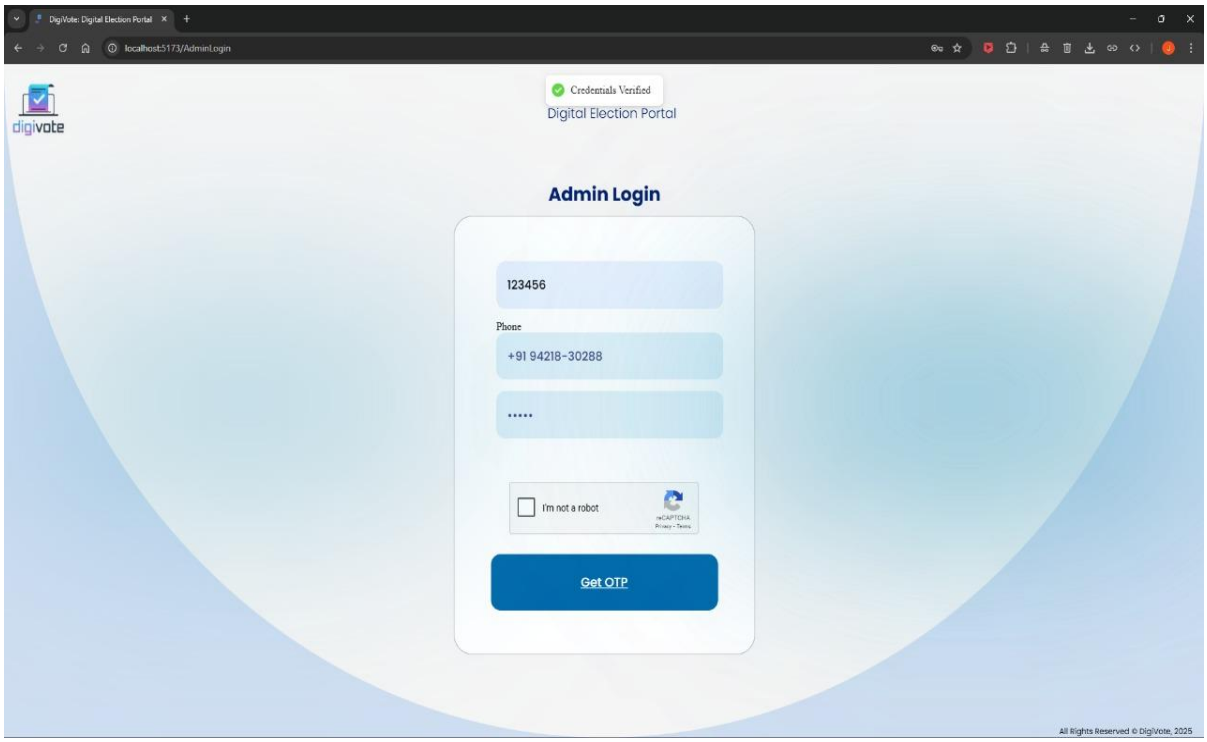
- ❖ Real-Time Updates – Teacher dashboard reflects latest data immediately, so students always see current information.
- ❖ Scalable & Future-Ready – System structure allows adding features like multi-teacher management or edit/update option in the future.

➢ Outputs of Project Created

- **Landing Page**

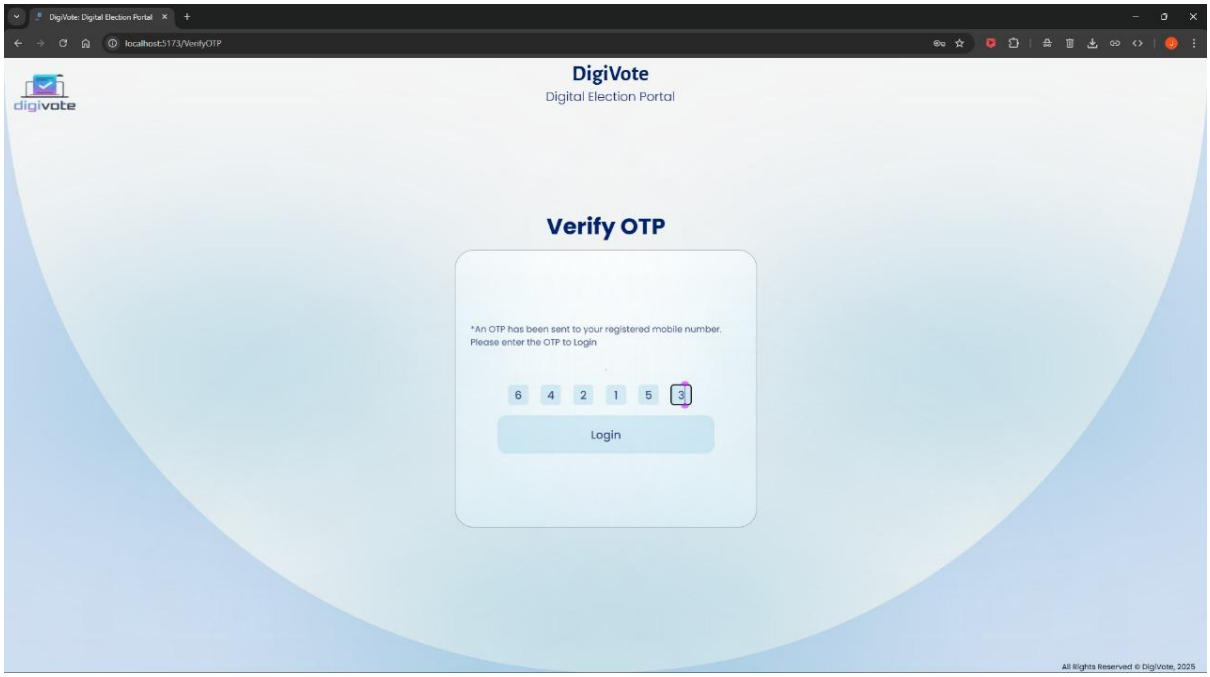


- **Admin Side**
  - **Admin Login**



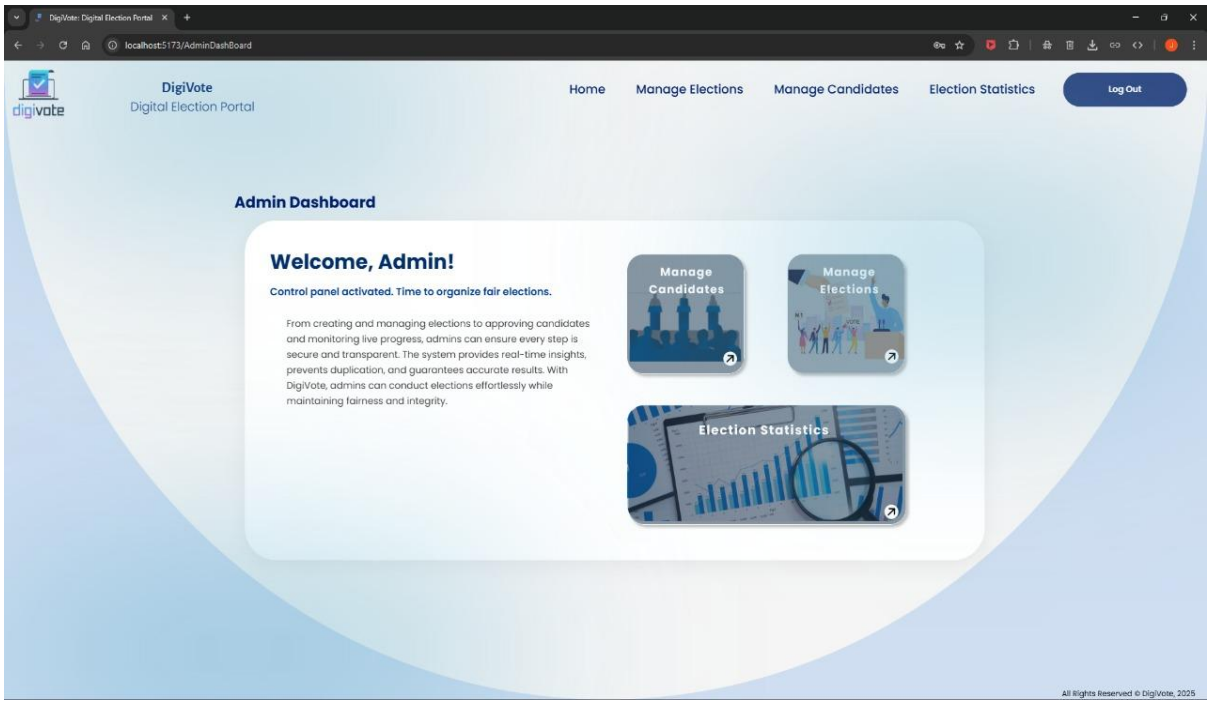
After Clicking Get OTP Admin will be Redirected to next Page i.e. Verify OTP

- **Verify OTP**



After Clicking Login Admin will be Redirected to Admin Dashboard

- **Admin Dashboard**

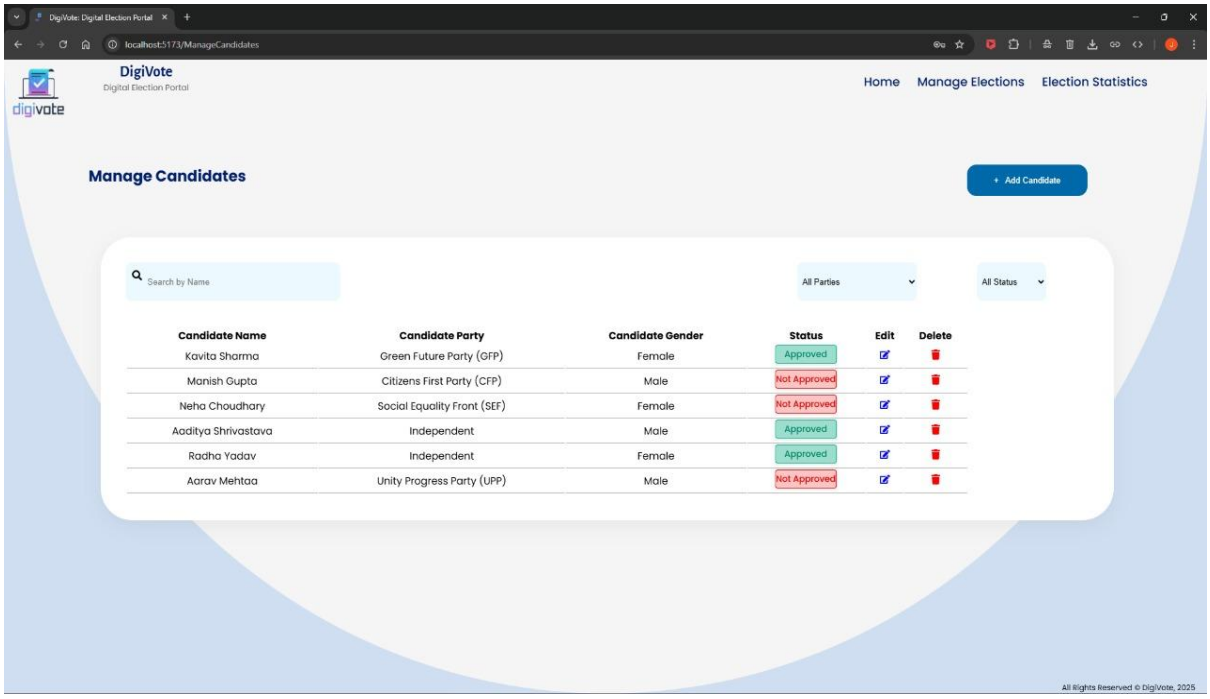


There are 3 Menus in Admin Dashboard

1. Manage Candidates 2. Manage Elections 3. Election Statistics

And Logout Button to Logout i.e. End Session

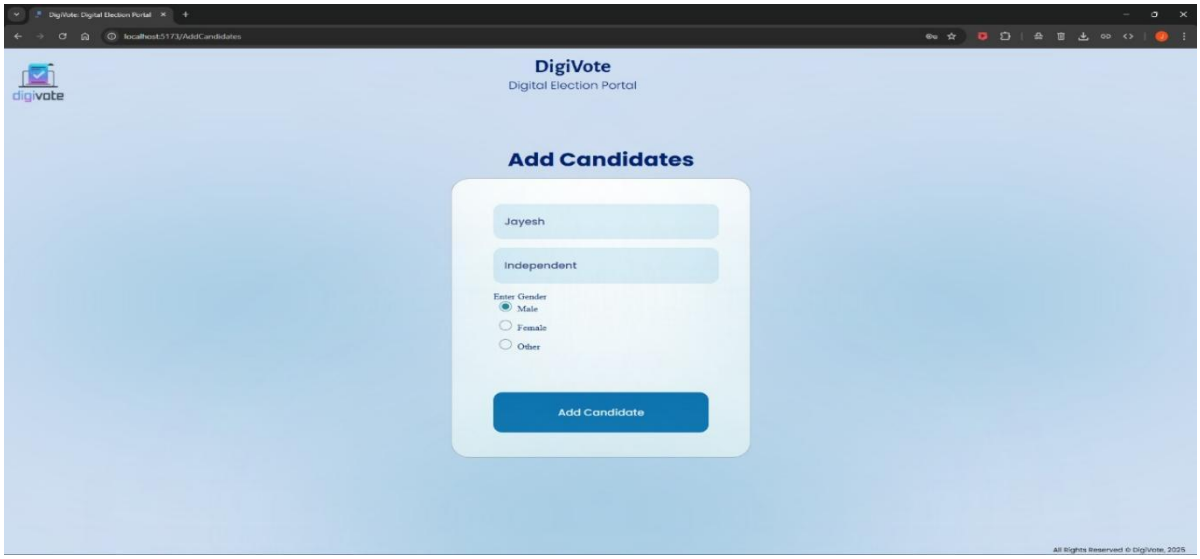
- **Manage Candidates**



In Manage Candidates Admin Has Right to Approve or Not Approve Candidate only Approved candidate will be shown to Voter to Vote. Admin can also Edit or Delete the Candidates and Has a Filter upon Search, Party wise & Status wise. Admin Also has Button to

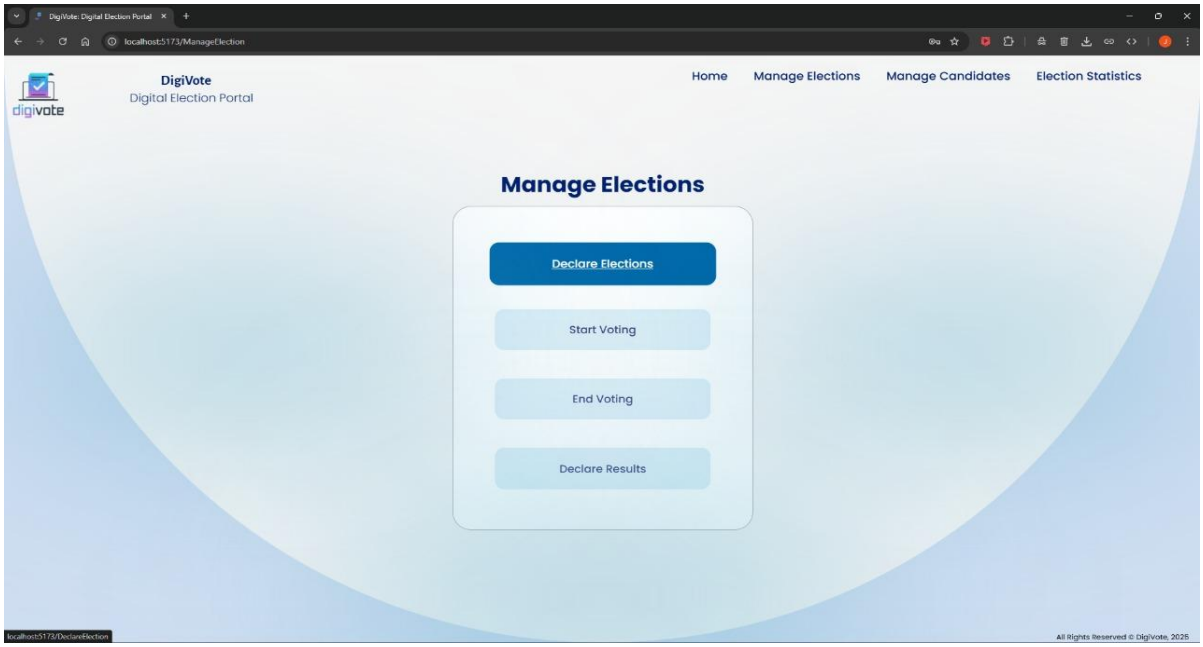
Add Candidate when Admin Clicks on it then Admin will be Redirected to Add Candidate Page.

- **Add Candidate**



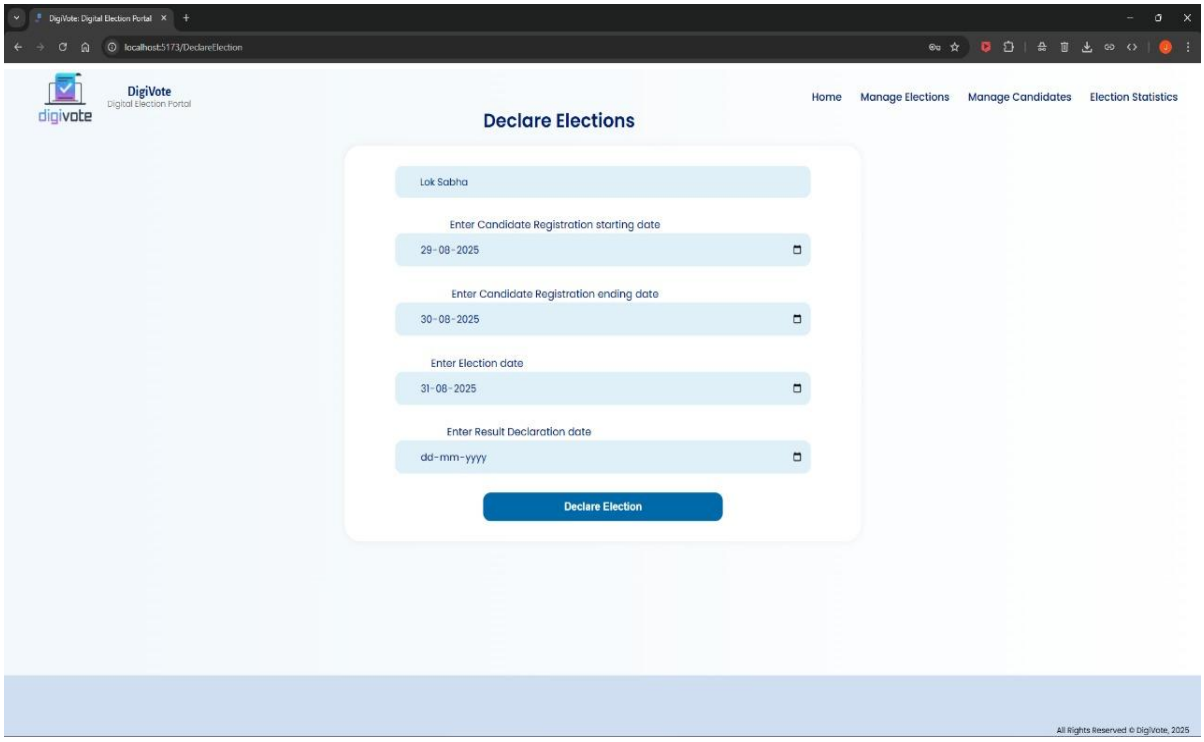
In Add Candidates Page Admin can Add Candidate Upon Details given by Candidate and Redirected to Manage Candidates page

- **Manage Elections**



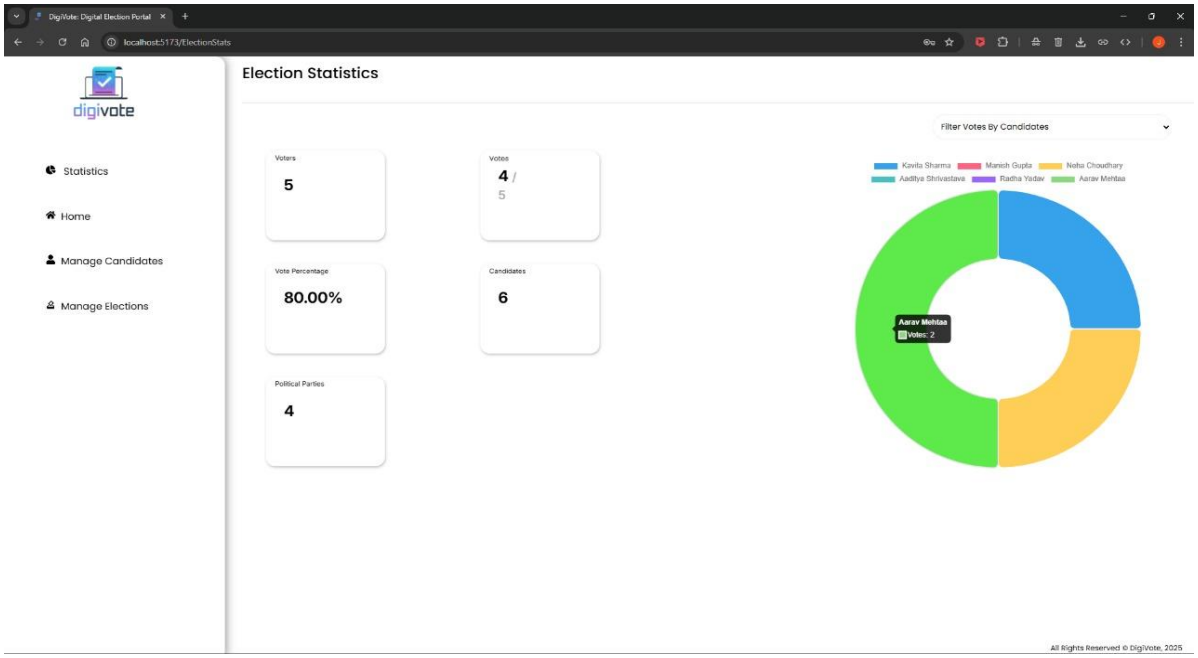
In Manage Elections Page Admin can Start Voting, End Voting, Declare Results & Declare Elections. After Clicking Declare Elections the Admin Will be Redirected to Declare Elections Page.

- **Declare Elections Page**



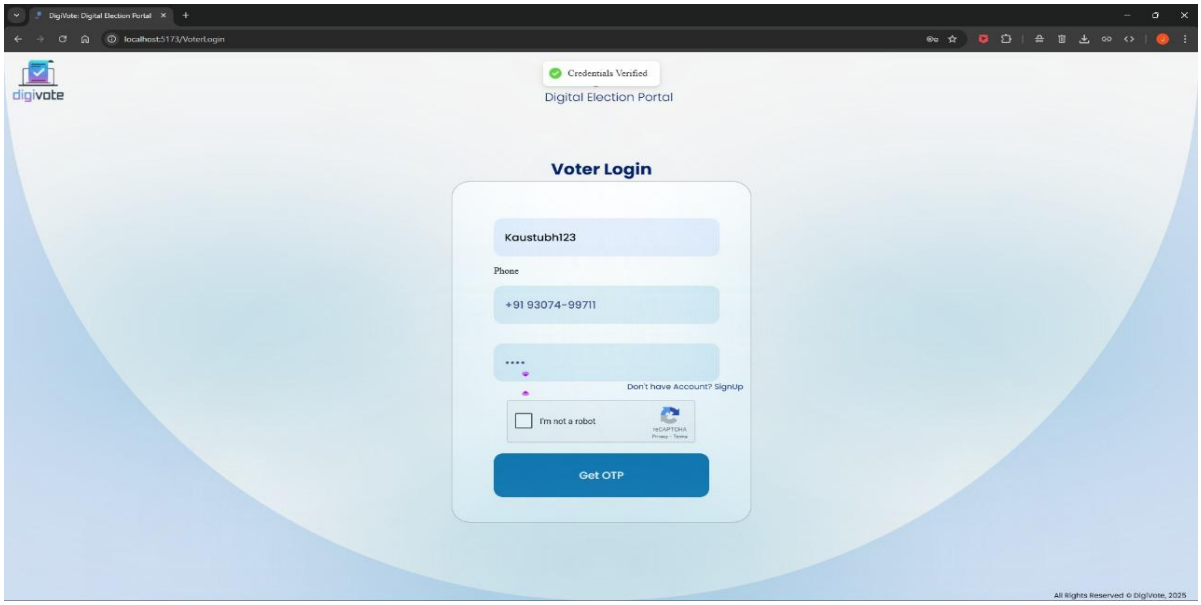
In Declare Elections Page Admin Has To Fill Election Name, Candidate Registration Starting And Ending Date, Voting Date & Result Declaration Date. After Clicking Declare Election Admin will be Redirected to Admin Dashboard.

- **Election Statistics**



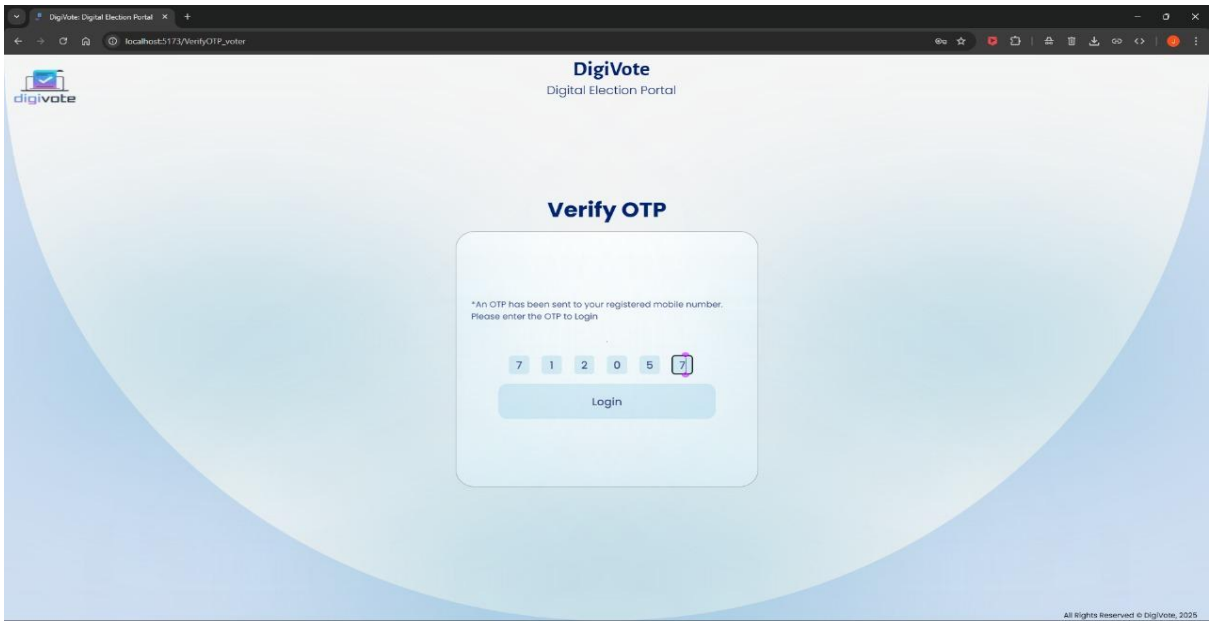
In Election Statistics Page Admin Can see number of Voters, Votes Casted, Percentage of Votes Casted, Number of Political Parties, Number of Candidates, Chart Featuring Votes Based on Candidate and Filters Based on Political Party and Candidate.

- **Voter Side**
  - **Voter Login**



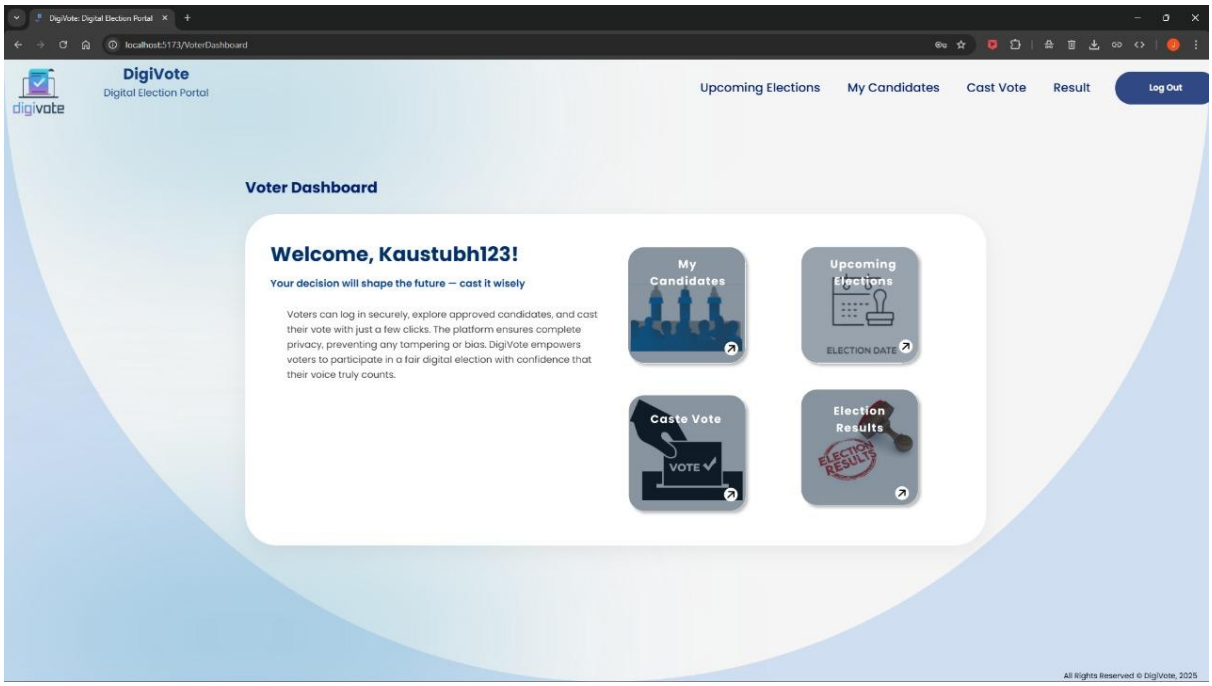
After Clicking Get OTP Voter will be Redirected to next Page i.e. Verify OTP

  - Verify OTP



After Clicking Login Admin will be Redirected to Voter Dashboard

  - **Voter Dashboard**

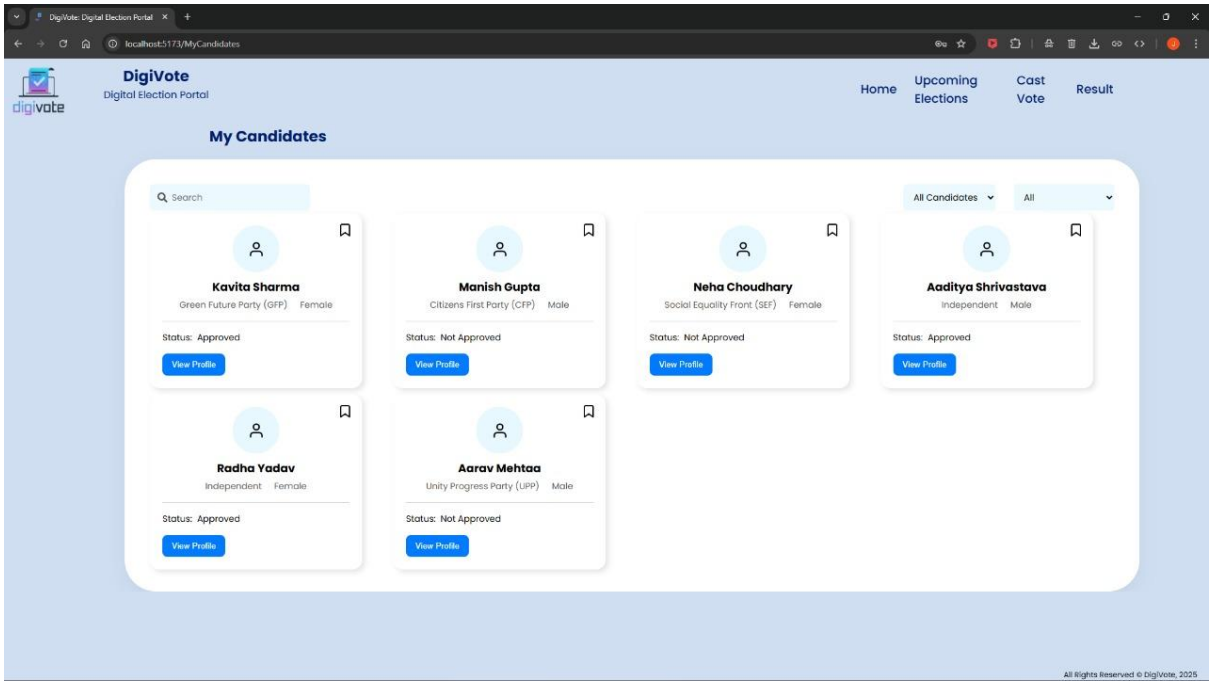


There are 4 Menus in Voter Dashboard

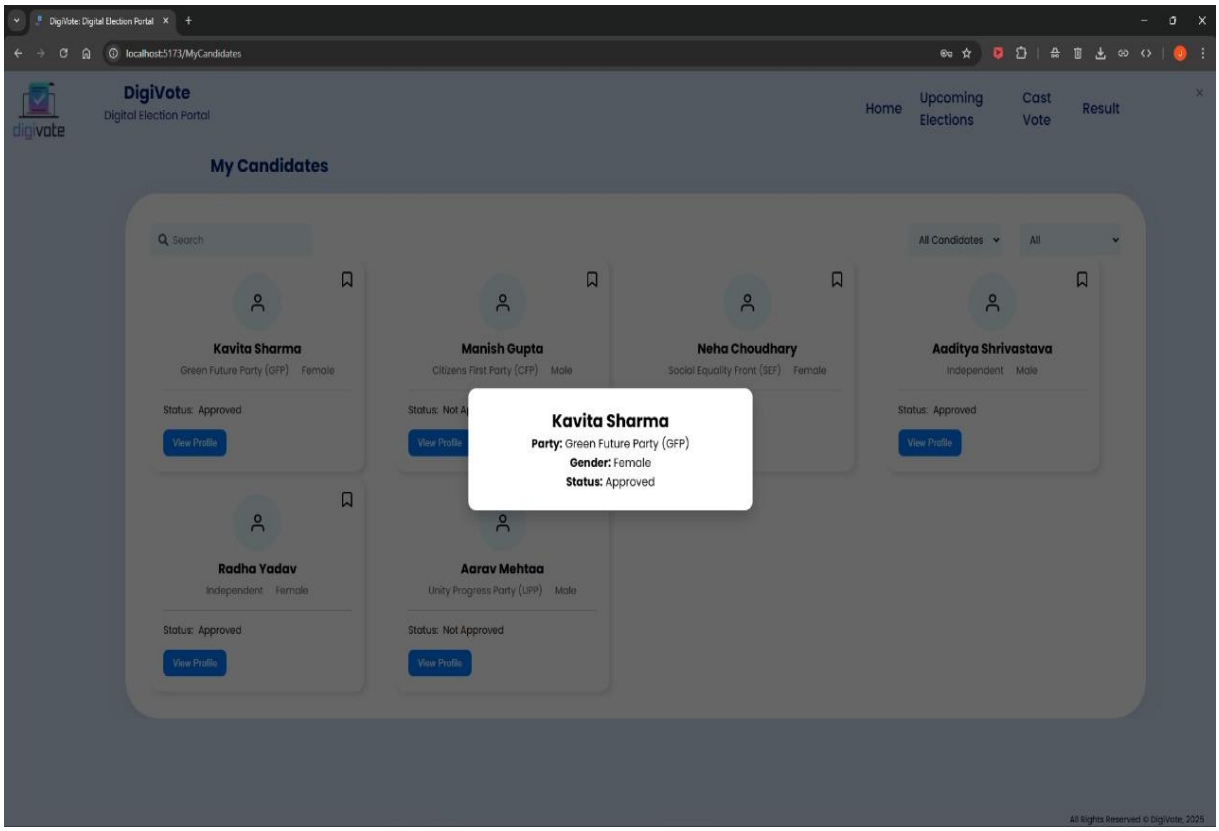
1. My Candidates 2. Upcoming Elections 3. Cast Vote 4. Election Results

And Logout Button to Logout i.e. End Session

- **My Candidates**

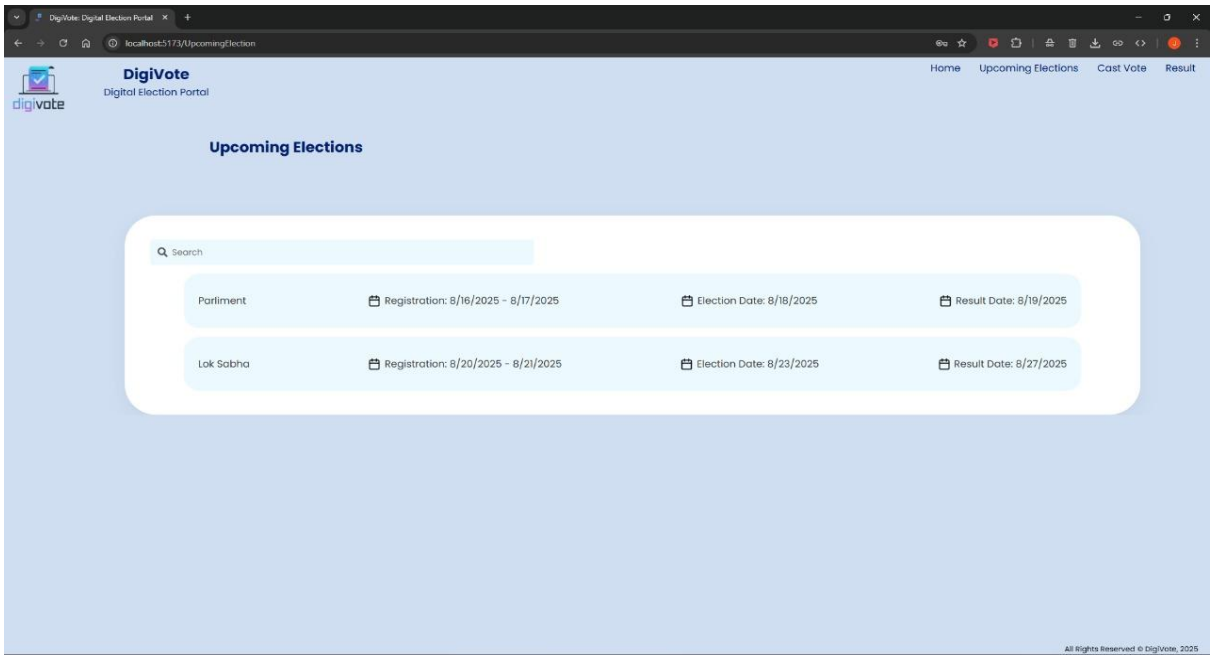


In My Candidates Page Voter Has Right to Bookmark Candidate Filter Candidates Based upon Approval & upon Party and When Voter click on View Profile Following Popup will be Shown



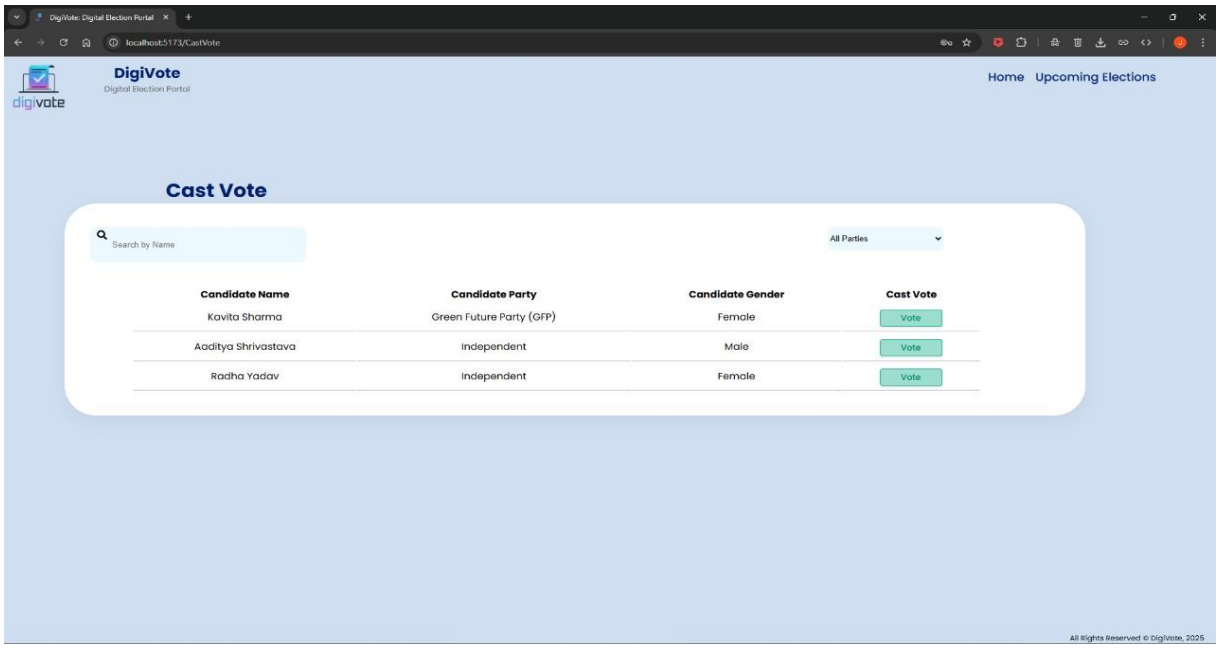
In Popup Voter will be Showed Name of Candidate, Party Name, Gender & Status of Candidate

- **Upcoming Elections**

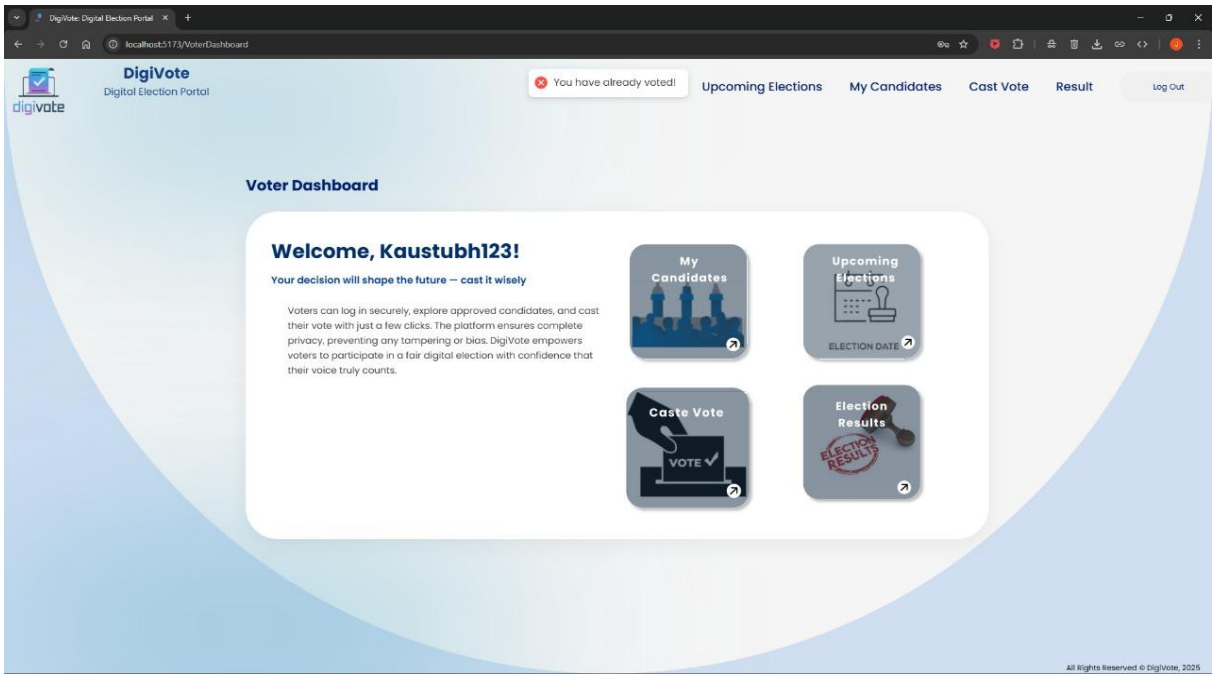


In Upcoming Elections Page Voter Can See Next Elections and can also see their Registration, Voting & Result Date

- **Cast Vote**

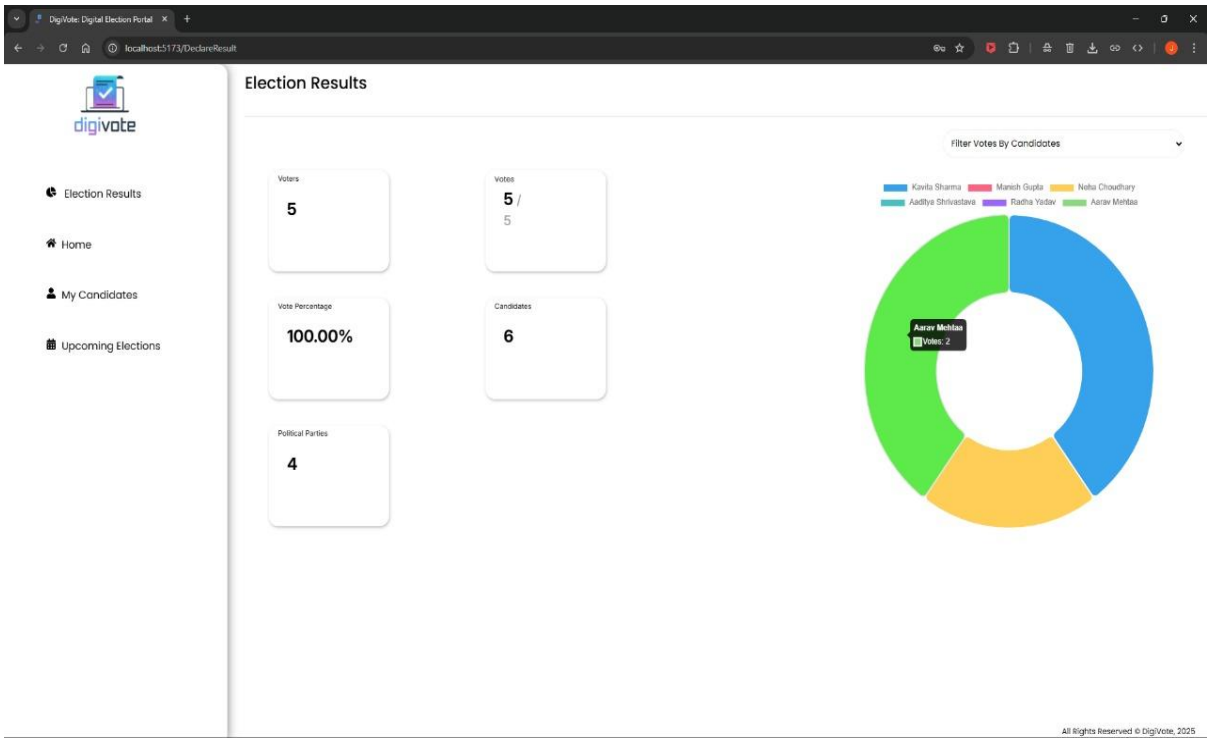


In Cast Vote Page Voter can Cast Vote and can apply filter based upon Parties and after Voting Voter will be Redirected to Voter Dashboard. When Voter is Redirected on Dashboard following Alert will Appear on Voter Dashboard



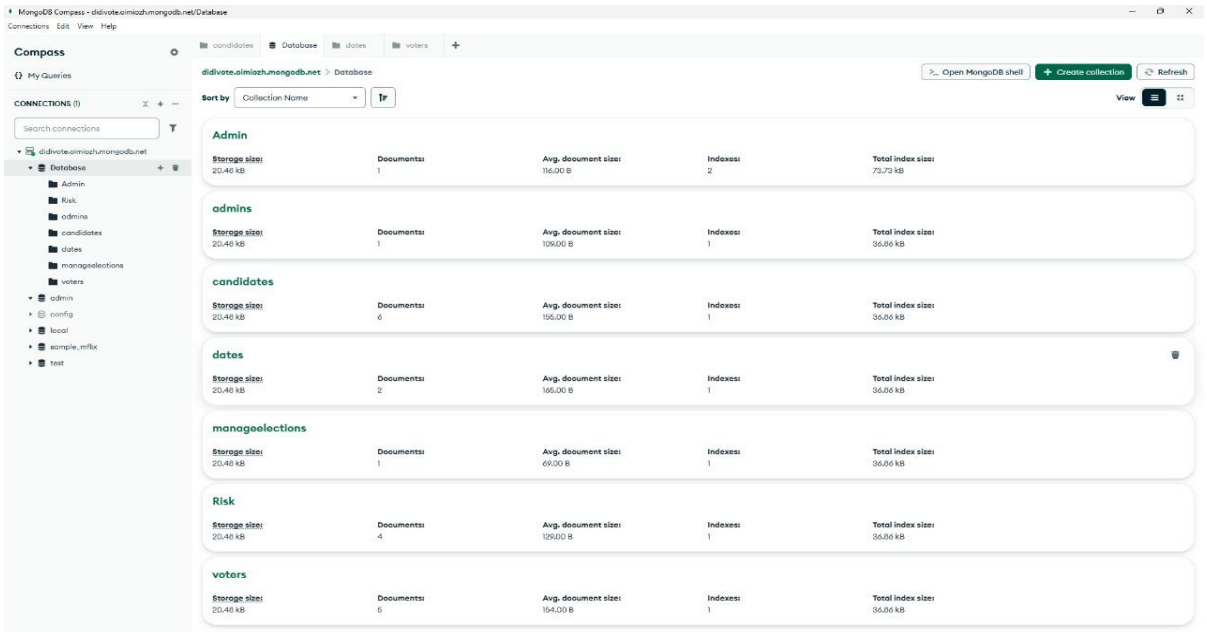
When Voter Tries to Cast Vote Again The Above Error will Appear.

- **Election Results**



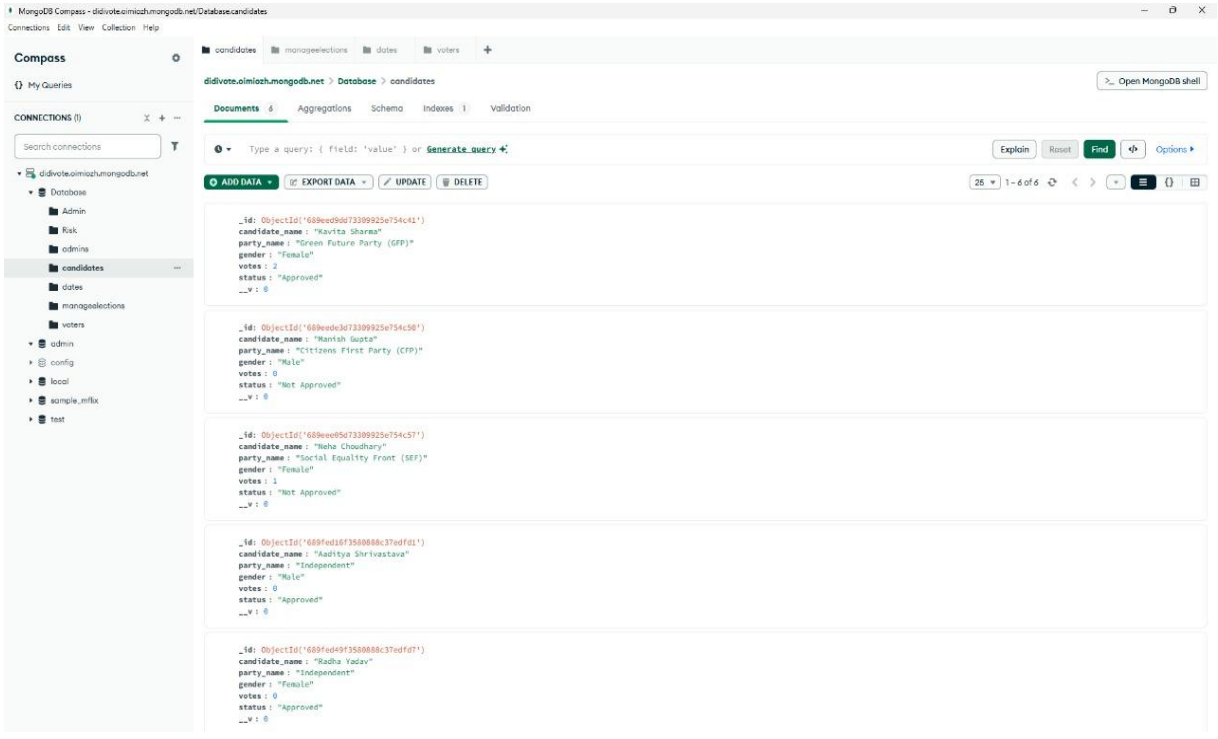
In Election Result Page Voter Can see number of Voters, Votes Casted, Percentage of Votes Casted, Number of Political Parties, Number of Candidates, Chart Featuring Votes Based on Candidate and Filters Based on Political Party and Candidate.

- **Database Structure (MongoDB)**



Above Image Shows The Structure of Database i.e. Collections, Storage Size, number of Documents, Avg. Document size, Indexes, Total Index Size

- **Candidate Collection**



Above Image shows Candidate collection i.e. Structure of Each document and Values in it.

CHAPTER 9:

Special/challenging experiences encountered during training.

- Integrating different components of the full stack (front-end, back-end, and database) sometimes presented challenges that were difficult to address within the limited training period.
- The time allocated for project development was often limited, which sometimes restricted our ability to fully implement and test features or to explore all possible solutions in depth.
- The training focused on a specific set of technologies (e.g., React.js, Node.js, etc.) which, while essential, did not cover other popular or emerging technologies that could be relevant in different contexts.

CHAPTER 10:

Conclusion

Our internship on **Python and Django Web Development**, conducted at **Passion Software Solutions**, has been an enriching and transformative experience. Over the course of the project, we gained comprehensive knowledge and hands-on experience in developing dynamic web applications using Django and SQLite, including role-based dashboards for teachers and students, managing events, assignments, attendance, and notes. This project equipped us with the skills necessary to design secure, user-friendly, and real-world web applications

CHAPTER 11:

References / sources of information

- **Figma Design Link:-** https://www.figma.com/design/gH4sBp6TQofvqB0E1r5UFH/ITR-Project?node-id=36-408&t=mxYO01C3p9WNt0rb-0
- **Github Repository Link:-** https://github.com/Kaustubh1277/ITR
- https://code.visualstudio.com/
- https://react.dev/
- https://nodejs.org/en
- https://expressjs.com/
- https://www.mongodb.com/
- https://www.w3schools.com/html/
- https://www.geeksforgeeks.org/css/css-tutorial/
- https://developer.mozilla.org/en-US/docs/Web/JavaScript