

2025

BEGIN WITH A NEW VISION

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Class :- MCA 4th Sem.

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Project Synopsis &
Project Diary

2025

JANUARY

Week-01
001-364

Dt. 13.01.2025

Wednesday

01

Name of the Project - Medi-Track

The Medi-Track project is a digital healthcare platform designed to enhance the efficiency and accessibility of medical services by providing an intuitive doctor appointment booking system, specialization-based matching support. By incorporating the system enables remote consultations, reducing wait times and improving healthcare access, especially in remote areas. The medi-Track project aims to modernize healthcare delivery through seamless digital solution, making medical services more efficient, secure and patient-centric.

S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	Fear follows crime and is its punishment											
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February

JANUARY

202

02

Thursday

Week
002-3

System Setup

1. Installation & setup of database (MySQL / PostgreSQL)
 2. Installation & setup of Java, JDK
 3. Installation & System checking of VS code.
- Issue solving of VS code.

Fear of ideas makes us impotent and ineffective.

January

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2025

Week-01
003-362

JANUARY

14. 01. 25

Friday

03

- Issue solving at vs code.
- Environment setting of MySQL.
- Installation of Springboot In vs code extension.
- Basic Idea about Springboot.
- Demonstration on Springboot project.
- Creating Zip folder on Medi-Tack & extraction of file.
- Creating home.html on template folder.
- Creating thymeleaf on static folder.

Fidelity is the sister of justice.

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February

JANUARY

2023

04

Saturday

15.01.23

Week
004-30

Designing of Project -

The Landing Page.

The Landing page serves as the first point of interaction for users.

- **Hero Section:** Includes a large, eye-catching image of delicious food with a captivating headline.
- **Navigation Bar:** Added a responsive navigation bar with links to key sections such as HTML, Menus, About us, Contact and Login/Sign up.

05 Sunday

Figures won't lie, but liars will figure.

January

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JANUARY

2025

Week-02
006-359

16,01,25

Monday

06

Designing of Landing Page

- Applied a consistent color palette reflecting a food-centre's theme.
- Responsive Design:- Enhanced the Landing page is responsive & adapting.
- footer: Included contact information social media links and quick navigation option.

Flattery corrupts both the receiver and the giver.

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February

JANUARY

2025

07

Tuesday

Dt. 17.01.25

Week-02
007-358

Designing Landing Page

- Added concise and engaging content section highlighting the platform's key features such as appointment booking, doctor search, etc.
- Used HTML & CSS and added JavaScript for interactive elements such as smooth scrolling and hover effects.

For the love of money is the root of all evil.

January

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2025

Week-02
008-357

JANUARY

Dt. 20.01.25

Wednesday

08

Designing of PDP

Worked on designing the Product Detail Page (PDP) for the Medi-Tech web application.

It displays detailed information about a doctor, patient, admin users with essential details to make informed purchasing decision which include,

→ Header and Navigation.

- Displayed a high resolution image of good doctor with the option to view appointment detail, Doctor booking detail in a calendar format.

Freedom can not live where there is injustice.

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February

JANUARY

2025

09

Thursday

Oct. 21.01.25

Week-02
009-356

Designing of PDP Page?

- Added key details including doctor name, specialist, charge, Description Rating & reviews.

- Added an add to cart button with a quantity selector, allowing users to specify appointment time of the doctor.

→ Included a visual confirmation of the appointment when the doctor is available.

Surat's
22.01.25

Genius must be born, it can never be taught.

January

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2025

Week-02
010-355

JANUARY

Dt. 22.01.25

Friday

10

Admin Dashboard Design:

- Worked on designing the Admin dashboard for the Medi-Tech web application.
- Adopted a fixed sidebar menu with links to homepage, Check appointments, mark specialist and logout link.
- Applied icons and hover effects to enhance user experience.

God heals and the doctor takes the fee.

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February

JANUARY

11

Saturday

Dt. 23.01.25

202

Week
011-35

Admin Dashboard Design :-

- Worked on Dashboard overview section.

→ Display key metrics
Completed appointments
Pending appointments
Maine doctor specialist

- Worked on order management section.

Dt. 24.01.25

Admin Dashboard Design

12 Sunday

- Worked on Category design page.
- Applied doctor page and user page.

Good intentions are not good unless carried out.

January

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2025

Week-03
013-352

DATE: 28.01.25

JANUARY

Monday

13

Admin Dashboard Design:

- worked on overall design of admin dashboard which includes search button, navigation bar.
- Added icons and hover effect.

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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 . . .

Good order is the foundation of all things.

February

JANUARY

2025

14

Tuesday

D.F. 26.01.28

Week-03
014-351

Git & Github

- Installation & Download of Git and Github.
- How to push code to github.
- Git pull & Git push commands to git & github.
- Other features including creating new branch and issue new ticket etc.

Goodluck never comes late.

January	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	F							
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JANUARY

2025

Week-03
015-350

Dt. 27.01.25

Wednesday

15

Creation of Controller page:-

- worked on developing the controller layer for the medi-track web application
- The controller handles user requests process them and return appropriate response.
- Created Controller classes.

Admin Controller

User Controller

Doctor Controller

Appointment Controller

Messe Controller

Payment Controller

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Gratitude is the memory of the heart.

February

JANUARY

2025

16

Thursday

Dt. 28. 01. 25

Week-03
016-349

Controller class

- Used http methods appropriately like

→ GET (Retreive data)

→ Post (Add new data)

→ PUT (Update existing data)

→ DELETE (Remove data)

Dt. 29. 01. 25

Controller Class

- Implemented input validation using Springboot's @valid annotation to prevent incorrect data submission.
- Spring MVC is used.
- Java box backend logic implement.

Great causes are never tried on their merits.

January	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	
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2025

Week-03
017-348

Date : 30.01.25 JANUARY

Friday

17

Entity Class

- Worked on developing the Entity layer for the Medi-teeth web application.
- The entity class represent data base tables and map the data to java objects enabling smooth interaction with MySQL database through JPA.

Date : 31.01.25

Entity class

- Developed separate entity classes like category entity, Doctor entity, User entity, appointment, payment entity class.

~~Surat~~
1.02.25

Great geniuses have the shortest biographies.

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February

JANUARY

2025

18

Saturday

Dt. 01.02.28

Week-03
018-347

- Created Auditable entity class which extends other classes.

- The getter, setter methods used,

Dt. 03.02.28

Entity class

→ Utilized JPA annotation for table mapping

- @ Entity → specifies the class as a JPA entity.
- @ Table [name = "table-name"]

19 Sunday Maps the class to the corresponding table in the database.

- @Id, @ Generated value
@ Column etc.

Happiness is not perfected until it is shared.

January

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2025

Week-04
020-345

JANUARY

Dt. 04.02.25

Monday

20

- Added validation annotations to ensure data integrity.
- @NotNull
- @Size
- @Email

Dt. 05.02.25

Creating Repositories.

Worked on developing the repository layer for the Medi-track web application.

→ Developed separate Repository for key entities.

- Doctor Repository.
- Admin Repository,
- User Repository

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Happiness lies, first of all, in health.

February

JANUARY

2025

21

Tuesday

Dt 06.02.25

Week-04
021-344

- Used Spring Data JPA to extend the repository interface, providing built-in methods like

- find All()
- find By Id();
- save (entity)
- delete By()

Dt. 07.02.25

- Added custom query methods to fetch specific data efficiently
 - find By Category
 - find By Status etc.
- Used Spring Boot JPA for ORM.

Hate is the subtlest form of violence.

January

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2025

Week-04
022-343

JANUARY

Dt. 08.02.25

Wednesday

22

- Worked on enum class.
- Created Doctor Status, appointment Status, payments method, payment Status User Role, Widget Status classes for lesson

Dt. 09.02.25

- Worked on Product Controller class to fetch the page, using get mapping.

Hatred is a settled anger.

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February

JANUARY

2025

23

Thursday

Dt. 10.02.25

Week-04
023-342

- Created admin ~~order~~ page which include all the information like Doctor name, appointment, specialist etc.
- Created user page under admin dashboard.

Dt. 11.02.25

- Worked on database table in MySQL.
- Inserted values to the database.

Haircut is self punishment.

W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
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2025

Week-04
024-341

JANUARY

Dt. 12.02.25

Friday

24

- Worked on CSS of admin dashboard.
- Overall space adjustments and other design.

Dt. 13.02.25

- Learned about entity entity Relationship ship.
- Collection interface and about list like array list, linked list, vector, & tree etc.

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He conquers who endures.

February

JANUARY

2025

25

Saturday

Dt. 14.02.25

Week-04
025-340

→ Learn on JDBC connection which include http request, dispatcher server / front controller, handler mapper, controller, view resolver etc.

Dt. 15. 02.25

→ Learn and implement fragments on admin dashboard

→ Created a fragment file as html & css which can include all common codes which can include all common codes which can be reuse in other html file.

Amrit
15.02.25

He is happy who thinks he is.

W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T								
January	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

2025

Week-05
027-338

Dt. 16.02.25

JANUARY

Monday

27

→ Merge the code in the git hub.

→ The conflict occur and resolve the conflict.

Dt. 17.02.25

→ Learn about UUID University Unique Identifier, which are 12-bit bytes used to uniquely identify objects in computer systems.

→ Implement it on entity class e.g. ① Generated value (strategy UUID).

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He that diggeth a pit shall fall into it.

February

JANUARY

2025

28

Tuesday

Dt: 18.02.25

Week-05
028-337

→ Worked on data-table of category, food-item page along with its back-end, using post mapping and get mapping.

Dt: 19.02.25

→ Work on category page and admin page,

→ Using them let spreadsheet dependency, we render the data

He travels fastest who travels alone.

January

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2025

Week-05
029-336

JANUARY

Dt. 20.02.25

Wednesday

29

Completed the admin category page and Doctor page design.

Worked on its database.

Dt. 21.02.25

→ Implemented CRUD operations (Create, Read, Update, Delete) to manage categories and appointment, allowing seamless interaction with the MySQL Database.

He who begins many things finishes nothing.

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February

JANUARY

30

Thursday

Dt. 22.02.25

2025

Weekly
030-38

→ Utilized them leaf template engine for rendering dynamic HTML content and displaying real-time data from the backend.

23.02.25

Dt. 23.02.25

→ Create new ticket and new branch through gitHub

→ Merge the existing code to the Master branch.

He who laughs last, laughs longest.

January

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2025

Week-05
031-334

JANUARY

Dt 24.02.25

Friday

31

→ Developed dynamic date table on the admin and user page of the web application using spring boot & thymeleaf.

→ Utilized Hibernate ORM object - relational mapping, to interact with MySQL database.

Dt 25.02.25

→ Integrated custom search and filter options, enabling user to easily locate specific categories and admin.

He who serves the poor is great in the eyes of God.

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February

FEBRUARY

01

Saturday

Dt. 26.02.25

20

Web
032

→ Ensured data consistency and integrity using Hibernate's ~~as~~ coding operation and validation annotation.

→ Worked on CSS of admin dashboard.

Dt. 27.02.25

→ Created widget table
→ Learned about Spring boot security
→ Implemented it using JWT token.
02 Sunday

He who trusts his secrets to a servant makes him master.

February

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2025

Week-06
034-331

FEBRUARY

Dt : 28. 02. 25

Monday

03

→ Integrated Spring Boot security to protect the Doctor details, user details, ensuring controlled access based on user roles and permission.

→ Applied role-based authentication & authorization, restricting access to sensitive operations to authorized users only.

Dt : 01. 03. 25

→ Used Bcrypt password encoding to securely store & verify user credentials.

→ Added custom login and logout functionality with proper session handling.

Logout
1.03.25

Hearing brings wisdom, speaking repentance.

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March

FEBRUARY

04

Tuesday

Dt : 02.03.25

20

We
035

→ Ensured CSRF (Cross-Site Request Forgery) Protection by enabling CSRF tokens in forms.

Dt : 03.03.25

→ Created config folder and Security config class under it where used @Bcrypt, Bcrypt password encoder (12) which will convert the password to hash form.

History is the essence of innumerable biographies.

February	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	F
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2025

Week-06
036-329

FEBRUARY

Dt. 04.03.25

Wednesday

05

- Developed the user service class as part of Medi-Tech application using Spring Boot handling business logic related to user operation.
- Implemented dependency injection with `@Autowired` to integrate the user repository for seamless interaction with MySQL Database.

Dt. 05.03.25

- Added the `get user (String email)` method to fetch the entire user entity, providing detailed user information.
- Applied exception handling using `on else throw()`

Home is where the heart is.

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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

March

FEBRUARY

Dt. 06.03.25

06

Thursday

- Worked on upload image
- Created a folder upload image in the explorer

- Put it on gitignore
- Upload images on the category and product page.

Dt. 07.03.25

- Created place order page which will conform the appointment successfully
- Link id to the place appointment in add to cart page.

Honest labour bears a lovely face.

February	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F
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FEBRUARY

2025

Week-06
038-327

Dt. 08.03.25 Friday 07

- Complete & place order page design and link.
- Worked on overall admin dashboard design page.

Dt. 09.03.25

- Worked on search button.
- Used Panrepository (Food items, styling) to leverage built-in crud operation and simplify database interaction.

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Honesty is the best policy.

March

FEBRUARY

Dt. 10 - 03-25

08

Saturday

Implemented the `findByFoodName` containing `IgnoreCase` (String `Doctor name`) method to perform case-insensitive search for food items by name.

→ Using Spring Data JPA's method naming convention to automatically generate query implementations reducing the need for writing SQL queries.

Dt. 11 - 03-25

09 Sunday

→ Worked on booked out widget page and data table.

Hope for the best and prepare for the worst.

February	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F
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2025

Week-07
041-324

FEBRUARY

Dt. 12.02.25

Monday

10

- Created widget entity class.
- Link it to the data base
- Worked on login & sign up error and fix it.

Dt - 13.02.25

- Created widget repository.
render data from database
to front end.

Hope thou not much, and fear thou not at all.

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March

FEBRUARY

11

Tuesday

Dt. 14.02.25

2025

Week
042

- Created widget list front end page.
- Create CSV file of widget list which have product Id and widget Id.

Dt. 15.02.25

- On admin dashboard render the dynamic of a boom the database and show it on frontend.

~~Break~~

16.02.25

How we live is important, not how long.

February

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2025

FEBRUARY

Week-07
043-322

Dt. 16.02.25

Wednesday

12

→ Worked on Spring Security.

→ Applied Java Script in the front-end for enhanced design.

→ Worked on CSS of widgets page under admin dashboard.

Dt. 17.02.25

→ Space adjustments & overall design of widgets front end and widget list page.

→ Add modal to the widgets html page to show widgets list page.

Human nature is greedy of novelty.

S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M							
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

March

FEBRUARY

13

Thursday

Dt. 18.03.28

- Created a new Repository under Repository folder to create JPA Repository.
- Worked on weekend of widgets and widget exist pages.

Dt. 19.03.28

- Created edit and delete button on category and product page under admin dashboard.
- Worked on delete button.

Humility is the key to quick success.

February

S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F							
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

2025

FEBRUARY

Week-07
045-320

Dt. 20.02.25 Friday 14

- Created edit and delete button on appointment page.
- Created auto repository under repository folder.

Dt. 21.02.25

- Worked on backend of edit and delete button.
- Merge code to the githeeb.
- Worked on entity class & security of product page.

Idleness is only the refuge of the weak mind.

S S M T W T F S S M T W T F S S M T W T F S S M
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

March

FEBRUARY

Dt. 22, 03, 25

15

Saturday

202

Week
046:

- Worked on overall edit & delete button.
- fix the errors.
- Completion of all design of backend of admin dashboard.

16 Sunday

~~Sumit~~

22.03.25

If money goes before, always doors lie open.

February

S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	F								
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