

Synopsis Of Project -

Project Title - Ecospark: Sustainable E-commerce for Ecofriendly Products.

The objective of this project is to establish an innovative e-commerce platform, Ecospark dedicated to promoting sustainable energy solutions through a diverse range of eco-friendly products. The increasing global emphasis on green energy and sustainability highlights the need for accessible and high-quality solar-powered and energy efficient products.

Ecospark specializes in products such as solar chargers, power banks, flashlights, garden lights, inverters, fans and energy-efficient LED bulbs, all designed to reduce electricity consumption and dependence on fossil fuels. By integrating a user-friendly e-commerce platform, the project aims to provide a seamless and

engaging shopping experience optimized for all devices.

The proposed system will feature an intuitive UI/UX with three key pages:

Product Listing Page (PLP): Displays an organized grid or list of products with filters for categories, price range, ratings and sustainability benefits, allowing customers to browse efficiently.

Product Detail Page: Provides an interactive image gallery, product descriptions, technical specifications, related products and customer reviews. Enhancing decision-making.

E-commerce and system: ensures a smooth checkout process with an engaging empty cart state, clear call-to-action buttons, and an intuitive order summary section.

Additionally, an admin dashboard will facilitate efficient inventory, order and customer management, ensuring seamless

backend operations. The system will be developed using HTML, CSS, JavaScript, Java and MySQL, and springboot to ensure a responsive, robust, and scalable interface. The solution is expected to increase awareness and adoption of renewable energy encourage consumers to make sustainable choices, and contribute to a greener future. By streamlining the shopping experience for eco-friendly products, Eshopack will foster an organized, efficient and environment-friendly marketplace, significantly benefiting customers.

Dt - 13 - 01 - 25

Planning for the project name, project logo, project features and colour theme.
- Analysis of the requirements.

Dt - 14 - 01 - 25

check all the steps are available or not, if not then we installed it and checked the versions of java and other things that are required for springboot based project.

Dt: 15 - 01 - 25

spring boot setup is done along with with git and github setup.

Also setup mysql in the system with environment setup.

Dt: 16 - 01 - 25

Design the landing page, product page, Description page and product listing

page of the project

→ Decide the e-commerce products so we need to keep in our project and also discuss about different type of categories, under which we added product.

Dt - 17-01-25

→ Detailed study about model view controller (MVC) and also study about some basic idea and setup of springboot project.

Dt - 18-01-25

→ Create project on springboot framework.

~~1st 01-25~~
1st 01-25

Week-2

→ Study about controller and also creating controller page for our project.

Dt - 20-01-25

→ Also link controller page to html

page and return html file.

→ Create repository on github and make it public for everyone.

Dt: 21-01-25

→ Create customer homepage and return that page in customer controller class
→ create header, footer, main section of our e-commerce project.

Dt: 22-01-25

→ Create css page for the respective html file for home page of customer.
→ linked css file with html page and done the customer home page or landing page based on the design of the project.

Dt: 23-01-25

→ Create static folder under resources

Dt: 24-01-25

→ Kupt all the style file, script file and image file under static folder

Dt: 25-01-25

→ Kupt all html file under template section and created pages.

22-01-25
Work-3

Dt: 23-01-25

→ Design ER (Enhanced Entity Relationship) diagram for our project

Dt: 28-01-25

→ Push the project code the github and learn how to do it.

→ Learn about how to clone the git with your partner.

Dt: 29-01-25

→ Learn about git push and git pull and also learned how to commit the code.

→ We learned about it and also implement-

ented in our project.

Dt: 30-01-25

→ Learn about git and git branch.

→ Learn about creating branch for making project.

Dt: 31-01-25

→ Study steps of making branches in git and demo pull and push in the project.

→ We studied it and implemented in our project.

Dt: 01-02-25

→ Learn about pull request (PR) in github

and implement it.

→ Generate pull request and merge it with

master branch.

Week-4

- create category class for categories in our ecosystem project.
- the make what things are needed in category page.
- learn about Auditing class in java.

DT: 04-02-25

- Discuss about relationship in tables of Database.

- create tables in concept of file for our ecosystem project.

- Build relationships between tables that are present in our ecosystem project.

DT: 05-02-25

- work on mysql workbench.
- learn how to run database on mysql.

Imp 24th
05.02.25

- create entity folder under which java entity class are written.

DT: 06-02-25

- study about collection framework, list in java.

- understand about git and github.

DT: 07-02-25

- study about fragment in java to separate common file.

DT: 08-02-25

- Decide no. of pages, we have to done for our ecosystem project.
- Made design for it.

Imp 24th
10.02.25

Week-05

Dt: 10-02-25

- Recently discuss about CI/CD pipeline,
- also learn ORM (Object Relational Mapping)
- By studying ORM, we learn the relation ship between tables in database or mysql

Dt: 11-02-25

- Study about JPA Hibernate, Java Persistence API.

- Insert data in data sql file of database of our project

Dt: 12-02-25

- Create Enum class under constant folder inside the main program.
- create repository of category class and extends JPA repository.
- Added autowired to the following controller.

Dt: 13-02-25

- Data binding was done like data from backend to frontend has been done. To represent the product or category from the database.

Week-6

Dt: 14-02-25

~~17-02-25~~

- learn about assigning ticket in github.
- And also know about how to create new branch successfully do it.

Dt: 15-02-25

- Also added CSS for it.
- Showing the data to front-end.
- bind data from backend on JSP page and creating product listing page (JSP) and

Dt: 14-02-25

Dt: 18-02-25

- we learned about linking categories to go to JSP page by doing data binding from category page to product listing page.
- learn code for data binding and write it inside the product controller.

- study about backup studies, where we export or import data from database of one system to another system.

Dt: 19-02-25

- Added fragment and make separate files for each section.

- learn how to write or link fragments in code.

Dt: 20-02-25

- user registration and sign-in page completed and working on POP and cart page.

Dt: 01-02-25

- working on cart page and admin page of product.
- insert product to the categories.

- completed sign-up page and working on cart page and admin page.

Dt: 22-02-25

- learn about working of search button of home/product page.

24.02.25
25.02.25

Work-07

- working on category page of admin dashboard.
- Also completed dashboard page of admin

Dt: 24-02-25

- learn about get mapping and post mapping dashboard page.

Dt: 25-02-25

- learn about image uploading and steps for doing image uploading in the project.
- working on product page of admin dashboard.

Dt: 26-02-25

- working on image uploading and also done the work on search button.

03-03-25
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Working on edit and delete page of category page of admin dashboard.
Dt: 01-03-25

Variable in java.
- learn about Array Specifier, Methods, product page of admin dashboard
- completed cart page and working on
Dt: 28-02-25

Working on cart page and product page of admin dashboard.
- learn about image uploading briefly.
Dt: 27-02-25

Week-08

Learn about keywords, literals, escape
characters in java.
- working on product page of admin dashboard
added css and javascript file with it
Dt: 03-02-25

Reference in java.
- completed search button of customer page.
- learn about class and object also studied
Dt: 04-02-25

Learn about Spring security in springboot
- fixing errors of search button of home
page.
Dt: 05-2-25

Working on image uploading on the
product by using controller, input file.
- learn about pass by value and pass by
reference in java.
Dt: 06-03-25

Dt: 07-03-25

- Learn about importance of java and also studied oops concept in java
- Learned spring security.

Dt: 08-03-25

- Briefly discuss about constructor and types of constructor.
- Working on search button and fixing issues

~~10-03-25~~
10-03-25

Week-09

- Working on payment page and about

- Learn more about spring security and

access method in java.

Dt: 11-03-25

- Working on Contact us page and solving issue of data binding on search button.

security

- Study about functional interfaces of spring

Dt: 12-03-25

- Working on image uploading of product page of admin dashboard.
- solving issue of category page of admin dashboard about adding product

Dt: 13-03-25

- updated the data of admin dashboard in category page.
- created the order and customer page of admin dashboard.

Dt: 14-03-25

- Data binding the order page of admin page.
- completed the image uploading of both category and product page.

Week-10

- working on order history and place order page.

Summary
12.03.25

DT-17-03-25

- fixing css for customer home page and modal of admin dashboard.

DT-18-03-25

- learn about edit page of product in admin dashboard and implement it on project.

DT-19-03-25

- ~~created~~ created widget page of admin dashboard and learn how to use data and data
- coming from backend to frontend

DT-21-03-25

- completed the edit and remove page

- of product and category page of admin dashboard. it remove the data and edit the product when it needed.

- working on order page from cart page to checkout page now done.

Summary
22.03.25