



Group 30

Software Engineering Capstone Project

NEWS PORTAL

GROUP 30



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GROUP 30

ABOUT NEWS PORTAL



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01

ABOUT NEWS PORTAL

NEWS PORTAL

News Portal

Medan
30

Introduce you Medan 30, your premier destination for staying informed in the dynamic landscape of Indonesia. At Medan 30, we recognize the critical role of reliable and timely information in today's fast-paced world. Our commitment lies in delivering news that matters, and we take pride in being your trustworthy source for real-time updates across an array of categories such as politics, entertainment, sports, health, and technology.

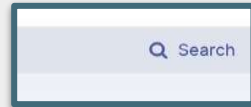
02

PROJECT HIGHLIGHT

NEWS PORTAL

FEATURE

Search Feature

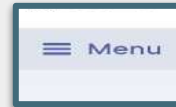


We can type in the news we want to read

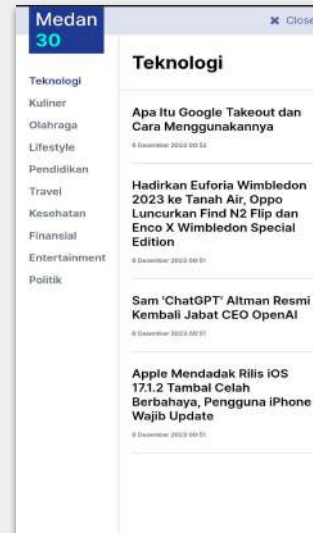


For example, if we type Pendidikan, news about Pendidikan will appear

Menu Feature



If we click on the menu several news categories will appear



For example, if we select the technology category on the menu, several news about technology will appear

Trending and Recommendation

Trending Filter



Displays
trending
news
stories

Recommendation



provides
recommend
ations from
selected
news
categories

Comment Feature



Nama

Komentar

Berikomentar

 **Tester** 6 Desember 2023 02:03
Test Comment



Readers can provide comments in the form of suggestions or criticism about the news

03

TECHNOLOGY USED

NEWS PORTAL

TECH STACK



HTML

The Language used to create layout on front-end side



CSS

Set the appearance and format of website pages



JAVASCRIPT

Make web pages more dynamic and interactive



EXPRESS.JS

Tools that can help web developers to build web applications and API for back-end development

DEVELOPMENT TECHNOLOGY



VS CODE

Write and edit
application code



GITHUB

Manage News Portal
code and collaborate
with the Team



FIGMA

UI design & Prototyping



THUNDER CLIENT

Testing and developing API



NODE.JS

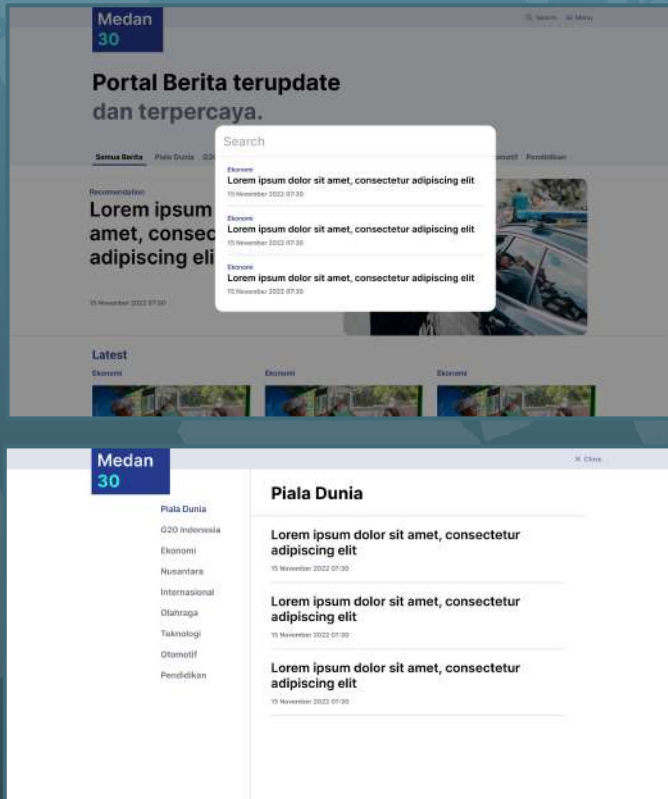
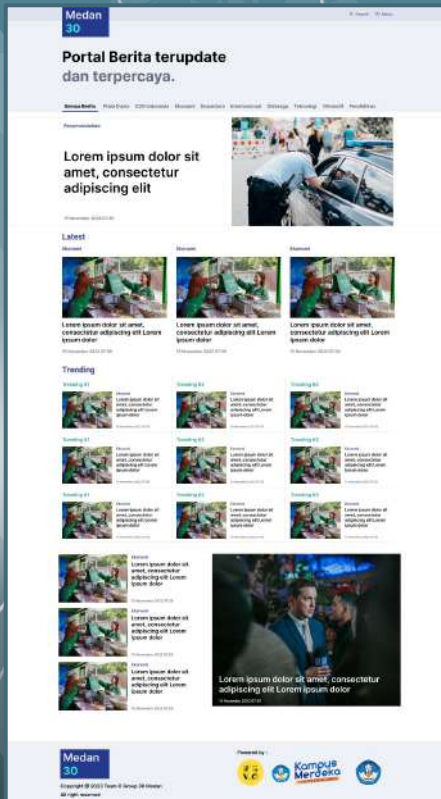
interpreter to run the
JavaScript programming
language

04

MOCK UP AND DESIGN

NEWS PORTAL

Full Design



Homepage Section

Medan
30

Q Search Menu

Portal Berita terupdate dan terpercaya.

[Semua Berita](#) [Piala Dunia](#) [G20 Indonesia](#) [Ekonomi](#) [Nusantara](#) [Internasional](#) [Olahraga](#) [Teknologi](#) [Otomotif](#) [Pendidikan](#)

Recommendation

Lorem ipsum dolor sit amet, consectetur adipiscing elit

15 November 2022 07:30

Hero and Category List

Latest

Ekonomi

Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Ekonomi

Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Ekonomi

Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Recommendation

Trending

Trending #1

Ekonomi
Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Trending #2

Ekonomi
Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Trending #3

Ekonomi
Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Trending #1

Ekonomi
Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Trending #2

Ekonomi
Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Trending #3

Ekonomi
Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Trending #1

Ekonomi
Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Trending #2

Ekonomi
Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Trending #3

Ekonomi
Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor

15 November 2022 07:30

Latest News

Trending News

Homepage Section



Ekonomi
 Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor
 15 November 2022 07:30



Ekonomi
 Lorem ipsum dolor sit amet, consectetur adipiscing elit Lorem ipsum dolor
 15 November 2022 07:30



Ekonomi
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 15 November 2022 07:30



Ekonomi
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 15 November 2022 07:30

More News



Copyright @ 2023 Team O Group 30 Medan
 All right reserved

Powered by :



Footer



Detail Section

Trending

Lorem ipsum dolor sit amet, consectetur adipiscing elit

15 November 2022 07:30

Title and Info



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur laculis eu odio sed vulputate.

Thumbnail

Write a Comment

Comment

Asep

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur laculis eu odio sed vulputate.

19 Oktober 2023 07:00

Asep

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur laculis eu odio sed vulputate.

19 Oktober 2023 07:00

Asep

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur laculis eu odio sed vulputate.

19 Oktober 2023 07:00

Comment

05

DEVELOPMENT PROCESS

NEWS PORTAL

1. Layouting with HTML

```
index.html > ...
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 </head>
5 <body>
6 <nav class="navber">-
7 </nav>
8
9 <!-- Hero -->
10 <div class="hero">-
11 </div>
12
13 <!-- Recommendation -->
14 <section class="highlight-container" id="highlight-container">-
15 </section>
16
17 <!-- Content -->
18 <div class="content-container">
19 <!-- Latest -->
20 <section class="content-container-section">-
21 </section>
22 <!-- Trending -->
23 <section class="content-container-section">-
24 </section>
25 <!-- More News -->
26 <section class="content-container-section">-
27 </section>
28 </div>
29
30 <!-- Footer -->
31 <footer class="footer">-
32 </footer>
33
34 <!-- Menu Modal -->
35 <div id="menu-modal" class="menu-modal modal-hide">-
36 </div>
37
38 <!-- Search Modal -->
39 <div id="search-modal" class="search-modal modal-hide">-
40 </div>
41
42 <!-- Error Toast -->
43 <div class="toast modal-hide" id="toast">-
44 </div>
45
46 <!-- Scripts -->
47 <script src="main.js">
```

2. Styling with CSS

```
css > # homepage.css > {} @media only screen and (max-width: 600px) > {} .trending-
1 /* Hero */
2 .hero {
3   background-color: #EEF2F7;
4   width: 100%;
5   display: flex;
6   justify-content: center;
7   padding-top: 28px;
8 }
9
10 .hero-container {
11   display: flex;
12   flex-direction: column;
13   width: 100%;
14   max-width: 960px;
15   margin-right: 16px;
16   margin-left: 16px;
17   overflow: hidden;
18 }
19
20 .hero-text-container {
21   display: flex;
22   flex-direction: column;
23   padding-top: 32px;
24   padding-bottom: 32px;
25 }
26
27 /* Hero Text */
28 .hero-text {
29   font-size: 46px;
30   font-weight: 700;
31   margin: 0px;
32   padding: 0px;
33   color: #66767D;
34 }
35
36 .hero-text.highlight {
37   color: black;
38 }
39
40 /* Hero Category */
41 .hero-category-container {
42   display: flex;
43   column-gap: 16px;
44   flex: 1;
45 }
```

3. Interactivity with JS

```
js > # navbar.js > ...
1 // Button
2 const menuButton = document.getElementById("menu-button");
3 const searchButton = document.getElementById("search-button");
4 const closeModalButton = document.getElementById("close-menu-button");
5
6 // Modal
7 const menuModal = document.getElementById("menu-modal");
8 const searchModal = document.getElementById("search-modal");
9 const searchModalContent = document.getElementById("search-modal-content");
10
11 // Menu Modal Content
12 const menuModalCategoryList = document.getElementById(
13   "menu-modal-category-list"
14 );
15 const menuModalResultTitle = document.getElementById("menu-modal-result-title");
16 const menuModalResultContainer = document.getElementById(
17   "menu-modal-result-list-container"
18 );
19
20 // Search Modal Content
21 const searchModalInput = document.getElementById("search-modal-input");
22 const searchModalContentResultContainer = document.getElementById(
23   "search-modal-content-result-container"
24 );
25
26 Codeium: Refactor | Explain | Generate JSDoc | X
27 > const chooseMenuCategories = async (category_id, category_name) => {
28   //
29 }
30
31 // On Menu Button Click
32 menuButton.addEventListener("click", () => {
33   //
34 });
35
36 // On Close Menu Button Click
37 closeModalButton.addEventListener("click", () => {
38   //
39 });
40
41 // On Search Button Click
42 searchButton.addEventListener("click", () => {
43   //
44 });
45
46 // On Menu Modal Overlay Click
47 searchModal.addEventListener("click", () => {
48   //
49 });
50
51 // Prevent Search Modal Content from Closing Modal
```


Back-End

1. Set Express.js Server

```
js index.js > ...
1 import express from "express";
2 import cors from "cors";
3 import router from "./router.js";
4 import { sequelize } from "../src/modules/database.js";
5
6 const app = express();
7 const port = process.env.PORT || 3300;
8
9 app.use(
10   cors({
11     origin: "https://kampus-merdeka-software-engineering.github.io",
12   })
13 );
14
15 app.use(express.json());
16
17 router.forEach(({ path, method, handler }) => {
18   app[method](path, handler);
19 });
20
21 app.listen(port, "0.0.0.0", async () => {
22   try {
23     await sequelize.authenticate();
24     console.log("Connection has been established successfully.");
25   } catch (error) {
26     console.error("Unable to connect to the database:", error);
27   }
28   console.log(`Example app listening on port ${port}`);
29 });
```

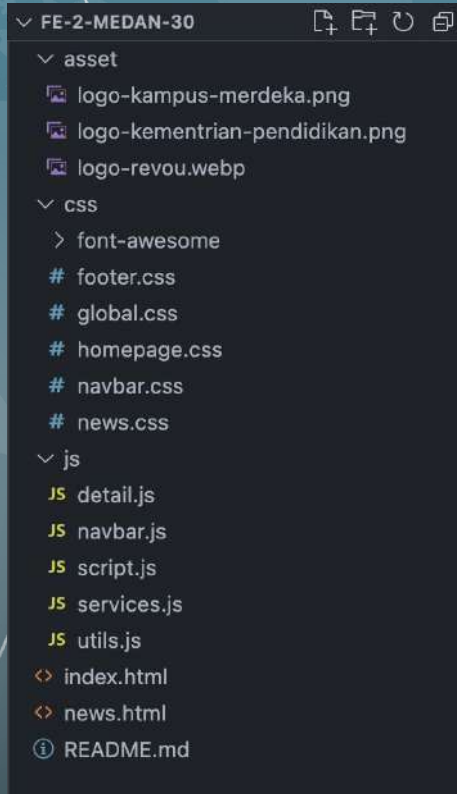
2. Set Router for Each Endpoint

```
js router.js > @router
1
2 const router = [
3   // Homepage
4   {
5     path: "/homepage",
6     method: "get",
7     handler: getHomepageHandler,
8   },
9   // News
10  {
11    path: "/news",
12    method: "get",
13    handler: getNewsHandler,
14  },
15  { path: "/news/create", method: "post", handler: createNews },
16  { path: "/news/create/bulk", method: "post", handler: createNewsBulk },
17  {
18    path: "/news/search",
19    method: "get",
20    handler: getNewsBySearchHandler,
21  },
22  {
23    path: "/news/:news_id",
24    method: "get",
25    handler: getNewsByIdHandler,
26  },
27  {
28    path: "/news/slug/:slug",
29    method: "get",
30    handler: getNewsBySlugHandler,
31  },
32  {
33    path: "/news/:news_id/comments",
34    method: "get",
35    handler: getNewsCommentsHandler,
36  },
37  // Categories
38  {
39    path: "/categories",
40    method: "get",
41    handler: getCategoriesHandler,
42  },
43 ];
```

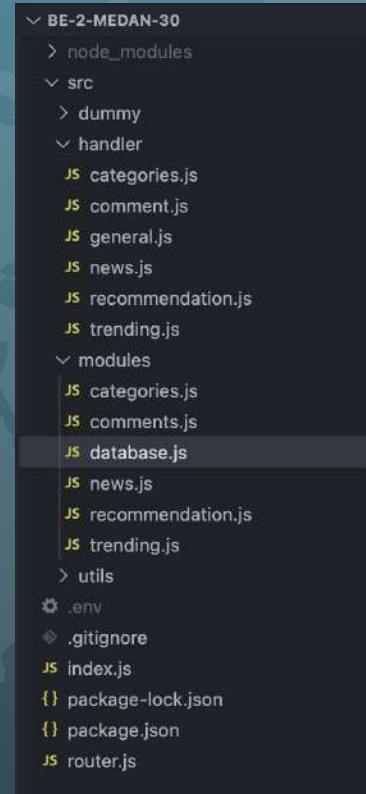
3. Connect to Database

```
src > modules > js database.js > ...
1 import { Sequelize, DataTypes } from "sequelize";
2 import {} from "dotenv/config";
3
4 const sequelize = new Sequelize(
5   process.env.DATABASE_NAME,
6   process.env.DATABASE_USER,
7   process.env.DATABASE_PASSWORD,
8   {
9     host: process.env.DATABASE_HOST,
10    port: process.env.DATABASE_PORT,
11    dialect: "mysql",
12  }
13 );
14
15 > const News = sequelize.define("News", {
16   });
17
18 > const Categories = sequelize.define("Categories", {
19   });
20
21 > const Comments = sequelize.define("Comments", {
22   });
23
24 > const Recommendation = sequelize.define("Recommendations", {
25   });
26
27 > const Trendings = sequelize.define("Trendings", {
28   });
```

Project Structure

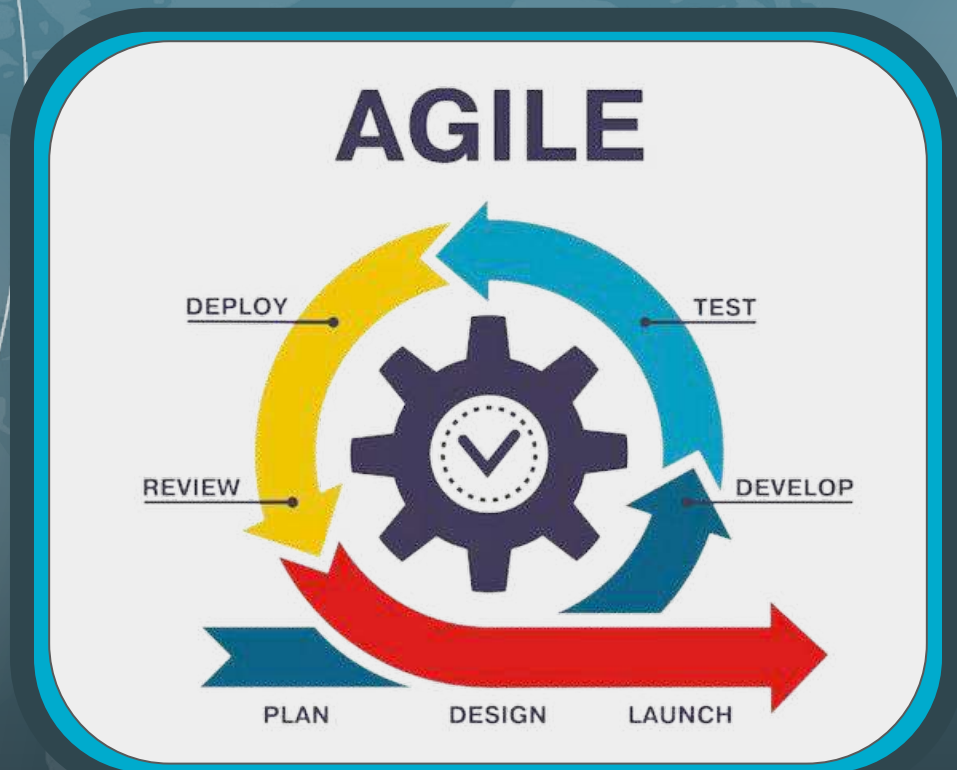


Front-End



Back-End

Agile Development Process





Front-End Deployment

Triggered via dynamic 2 hours ago

teng kudavyan c351bbf

Status

Success

Total duration

46s

Artifacts

1

pages-build-deployment

on: dynamic

✓ build

18s

✓ report-build-status

3s

✓ deploy

7s

<https://kampus-merdeka-software-engi...>



Back-End Deployment

The screenshot shows a web dashboard for a project named "BE-2-Medan-30". The top navigation bar includes a logo, a breadcrumb trail "/ aloof-comparison / production", tabs for "Architecture" and "Observability", and links for "Help", "Trial Plan", and "\$ 4.10".

On the left sidebar, a card for "BE-2-Medan-30" shows a status of "be-2-medan-30-production...." and a green checkmark indicating it was deployed "17 hours ago via GitHub".

The main content area displays the "Deployments" tab for "BE-2-Medan-30". It shows a recent deployment of "be-2-medan-30-production.up.railway" with "slight changes" made "17 hours ago via GitHub" to the "main" branch. A "View Logs" button is available for this deployment.

Below the current deployment, a "HISTORY" section lists previous deployments, all marked as "Removed" and deployed "17 hours ago via GitHub".

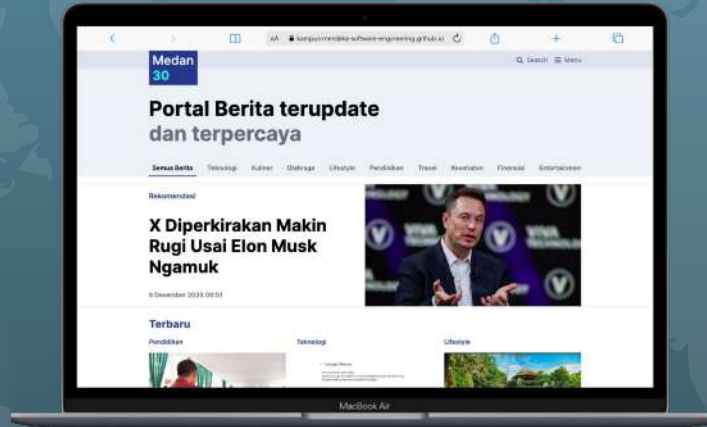
Deployment	Changes	Branch
be-2-medan-30-production.up.railway	slight changes	main
Removed	Number cast remove	main
Removed	Number cast remove	main
Removed	Number cast remove	main
Removed	dummy	



PREVIEW



SMARTPHONE



DESKTOP/LAPTOP



TABLET

LINK

05

RECOMMENDATIONS

NEWS PORTAL



Recommendations for Future Development

1. Share Feature
2. Edit Comment Feature
3. What You See What You Get Feature (WYSWYG)
4. Multiple Thumbnail
5. Email Subscriptions

GROUP 30

THANK YOU

