News Aggregation and Monetization Website Guide

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Step 1: Setting Up the Project
1. Install Required Tools:
 - Install Node.js (https://nodejs.org/).
 - Install a code editor like Visual Studio Code (https://code.visualstudio.com/).
 - Install MySQL and set up a local instance (e.g., XAMPP (https://www.apachefriends.org/)).
2. Initialize the Project:
 mkdir NewsAggregationWebsite
 cd NewsAggregationWebsite
 npm init -y
 This creates a package json file.
3. Install Required Node.js Packages:
 npm install express mysql2 dotenv axios cors
4. Set Up Project Structure:
 NewsAggregationWebsite/
 ■■■ backend/
 ■ ■■■ app.js
 ■ ■■ routes/
 ■ ■■■ news.js
 ■ ■■ controllers/
 ■ ■■■ newsController.js
 ■ ■■ config/
       ■■■ db.js
 ■■■ frontend/
 ■ ■■■ index.html
 ■ ■■ css/
 ■ ■■■ styles.css
 ■ ■■■ js/
       ■■■ script.js
 ■■ .env
 ■■■ README.md
Step 2: Backend Development
1. Database Configuration:
 - Create a database named news website in MySQL.
 - Create tables:
  CREATE TABLE articles (
     id INT AUTO_INCREMENT PRIMARY KEY,
     title VARCHAR(255),
     description TEXT,
     url VARCHAR(255),
     category VARCHAR(50),
     published_at DATETIME
```

- 2. News API Integration:
 - Fetch articles from News API using Axios.
 - See backend/controllers/newsController.js code in the chat above.

- Configure the database connection in backend/config/db.js

- 3. Express Routes:
 - Set up routes in backend/routes/news.js.
 - Add route to app.js.

Step 3: Frontend Development

- 1. HTML Structure:
 - Create frontend/index.html.
- 2. CSS Styling:
 - Create frontend/css/styles.css.
- 3. JavaScript for Frontend:
 - Create frontend/js/script.js.

Step 4: Testing and Deployment

- 1. Test Locally:
 - Start the backend: node backend/app.js.
 - Open frontend/index.html in a browser.
- 2. Deploy the Backend:
 - Use Heroku or Vercel.
- 3. Deploy Frontend:
 - Use Netlify or GitHub Pages.

Step 5: Integrate Ads and Analytics

- Add Google AdSense code to index.html.
- Use Google Analytics for monitoring traffic.