**# Calculator Tools for Everyone**

**## 📌 Project Overview**

**This project is developed and maintained by \*\*Maha Mission Education and Career Council (NGO)\*\* through learning projects on \*\*ApnaGuru.in\*\*. It is proudly supported by \*\*Apnasite IT Services Pvt. Ltd.\*\*, which provides: ✅ \*\*Technical support\*\*\**

**✅ \*\*Mentorship\*\*\**

**✅ \*\*Deployment\*\*\**

**✅ \*\*Ongoing maintenance\*\* of these projects**

**\*\*🌐 Live URL:\*\* [https://.apnasite.in](https://tools.apnasite.in)\**

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**## 🚀 Project Purpose**

**The purpose of this project is to \*\*enhance backend skills\*\* of ApnaGuru students by giving them hands-on experience working on \*\*live coding projects\*\* in a \*\*real-world IT environment\*\*. It allows them to contribute to an open-source repository and gain \*\*industry-level exposure\*\*.**

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**## 📂 Project Structure**

**The repository is structured as follows:**

**```**

**📦 calculator-backend-assignments**

**┣ 📂 mini-projects**

**┃ ┣ 📂 [Developer\_Name]\_\_[assignmentnumber-tool-name]**

**┃ ┃ ┣ 📂 public  (Static assets like HTML, CSS, JS for the tool)**

**┃ ┃ ┣ 📜 index.js  (Mini-project's main Express.js application file)**

**┃ ┃ ┣ 📜 routes.js  (Defines all API routes for the mini-project)**

**┣ 📂 tools  (Contains assignment instructions in .docx format)**

**┣ 📜 user-assignments.xlsx  (Tracks assignments and their status)**

**┣ 📜 index.js  (Main Express.js app that integrates all mini-projects dynamically)**

**┣ 📜 routes.js  (Handles merging of all mini-projects' routes into main app)**

**┣ 📜 .env  (Stores environment variables, including ports)**

**┣ 📜 README.md  (Project documentation)**

**```**

**### 🔖 \*\*Mini-Project Naming Convention\*\***

**- The mini-project folder must be named as:\**

**\*\*[Developer\\_Name]\\_\\_[assignmentnumber-tool-name]\*\***

**- Example: If \*\*Vilas Shetkar\*\* is working on \*\*01-age-calculator\*\*, the folder name should be:\**

**\*\*Vilas\\_Shetkar\\_\\_01-age-calculator\*\***

**- If the naming convention is not followed, \*\*the assignment will be rejected.\*\***

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**## 📜 How to Run a Mini-Project**

**### \*\*Step 1: Clone the Repository\*\***

**```sh**

**git clone https://github.com/Apnasite/calculator-backend-assignments**

**cd calculator-backend-assignments**

**```**

**### \*\*Step 2: Install Dependencies\*\***

**```sh**

**npm install**

**```**

**### \*\*Step 3: Run a Mini-Project\*\***

**```sh**

**cd mini-projects/[Developer\_Name]\_\_[assignmentnumber-tool-name]**

**node index.js**

**```**

**> The application will run on the port specified in the \*\*.env\*\* file.**

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**## 📤 How to Submit an Assignment on GitHub**

**### \*\*Step 1: Fork the Repository\*\***

**- Go to [\*\*GitHub Repo\*\*](https://github.com/Apnasite/calculator-backend-assignments.git)**

**- Click \*\*Fork\*\* (top-right corner)**

**- Clone your forked repository:**

**```sh**

**git clone https://github.com/YOUR\_GITHUB\_USERNAME/calculator-backend-assignments.git**

**```**

**### \*\*Step 2: Create Your Mini-Project Folder\*\***

**- Inside `mini-projects/`, create your folder using the \*\*correct naming convention\*\*.**

**- Add your project files (index.js, routes.js, public folder, etc.).**

**### \*\*Step 3: Commit & Push Your Code\*\***

**```sh**

**git add .**

**git commit -m "Added [Developer\_Name]\_\_[assignmentnumber-tool-name]"**

**git push origin main**

**```**

**### \*\*Step 4: Create a Pull Request\*\***

**- Go to the original repo: [\*\*GitHub Repo\*\*](https://github.com/Apnasite/calculator-backend-assignments.git)**

**- Click \*\*New Pull Request\*\***

**- Select your forked repository & branch**

**- Add a \*\*title & description\*\* (e.g., "Assignment Submission - [Developer\\_Name]\\_\\_[assignmentnumber-tool-name]")**

**- Click \*\*Create Pull Request\*\***

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**## 🌍 Main Project Deployment Steps**

**### \*\*Step 1: Clone the Repo on Server\*\***

**```sh**

**git clone https://github.com/Apnasite/calculator-backend-assignments.git**

**cd calculator-backend-assignments**

**```**

**### \*\*Step 2: Install Dependencies\*\***

**```sh**

**npm install**

**```**

**### \*\*Step 3: Set Up Environment Variables\*\***

**Create a `.env` file and configure:**

**```**

**PORT=3000**

**NODE\_ENV=production**

**```**

**### \*\*Step 4: Start the Application\*\***

**```sh**

**node index.js**

**```**

**> The main project will aggregate all mini-projects dynamically and serve them.**

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**### \*\*✅ Assignment Tracking\*\***

**All assignments are tracked in `user-assignments.xlsx`. Each student's progress is categorized as:**

**- \*\*New\*\*: Assignment not yet taken.**

**- \*\*Assigned\*\*: Assigned to a user.**

**- \*\*Reassigned\*\*: Reassigned due to rejection or changes.**

**- \*\*Completed\*\*: Fully implemented and working.**

**- \*\*Published\*\*: Merged into the main project.**

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**## 🎯 Conclusion**

**This project is an opportunity for students to \*\*learn backend development\*\*, \*\*integrate APIs\*\*, and \*\*gain real-world experience\*\*. Follow the instructions carefully and \*\*submit your mini-projects correctly\*\*. 🚀**

**Happy coding! 🎉**