SePP : Smart Educational & Productive Portal

BY STORMING CIRCUITS

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Agenda

- Understanding of the problem
- Breakdown of Logic & Algorithm
- Code Implementation
- Demonstration of Output
- Challenges faced and solutions

SePP

Smart Educational & Productivity Portal

A Modern solution to maintain our modern problems. SePP helps students create and maintain personalized planners.

Get Started   Dashboard

✨ Features

⋆ Understanding of the Problem

- The project aims to create a platform where students can manage time, practice quizzes, track progress, and improve productivity using smart digital tools.

- It should provide an easy-to-use system where users can log in, attempt quizzes, view dashboards, check stats, and manage learning activities smoothly through the website.

- A working web application that helps students learn better by showing personalized progress, offering interactive features, and simplifying their overall study experience.

- Today, students need quick feedback, accessible learning tools, and clear progress tracking. A system like this supports smarter learning, helps to manage time, and improves academic performance as well as health factors using digital technology.

★ Breakdown of Logic & Algorithm

- **Overall Approach / Working Principle:**
  - The system takes user input (login or quiz attempt), processes it through predefined rules, updates data (score, progress, or profile), and displays the result on the dashboard in real time.

- **Pseudocode**
```
BEGIN
IF user_not_registered THEN SIGNUP
ELSE LOGIN
LOAD dashboard
CHOOSE feature (quiz/stats/friends)
IF quiz_selected:
load_questions()
get_user_answers()
score = evaluate()
update_progress(score)
show_results()
ENDIF
END
```

★ Breakdown of Logic & Algorithm

- **Step-by-Step Algorithm**
    1. Start
    2. User signs up or logs in
    3. Load user profile & dashboard
    4. User selects a quiz or feature
    5. System fetches required data
    6. User submits answers/input
    7. System validates responses
    8. Calculate score/progress
    9. Update database or local storage
    10. Display results & analytics
    11. End

★ Code Implementation

Firebase Config

```
const firebaseConfig = {
apiKey: "AIzaSyB2H7d8KibkE9M91bDuRip-GohbgtQeYmY",
authDomain: "c1787jr1-zonals.firebaseapp.com",
projectId: "c1787jr1-zonals",
storageBucket: "c1787jr1-zonals.firebasestorage.app",
messagingSenderId: "1060126001634",
appId: "1:1060126001634:web:27287bf23e00797a03d1bb",
measurementId: "G-REXP83QPSC"
};
```

★ Code Implementation

User Login Validation

```javascript
function login() {
  const email = document.getElementById("email").value;
  const pass = document.getElementById("password").value;

  if (email == storedEmail && pass == storedPass) {
    window.location.href = "dashboard.html";
  } else {
    alert("Invalid Credentials");
  }
}
```

Smart Educational and Productivity Portal

A Modern solution to maintain our modern problems.

+ Log Manual Activity

Study vs Break Balance

32% Break

68% Study

Productivity Score

98

Based on study time

Wellness Score

58

Based on breaks & exercise

Balance Ratio

Balanced

68% Study / 32% Break

Productivity Trend (Last 7 Days)

100
75
50
25
0

Dec 2 Dec 3 Dec 4 Dec 5 Dec 6 Dec 7 Dec 8

Today's Activity

Study Time	Exercise Time	Productivity	Wellness
3h 54m	**1h 42m**	**98/100**	**58/100**
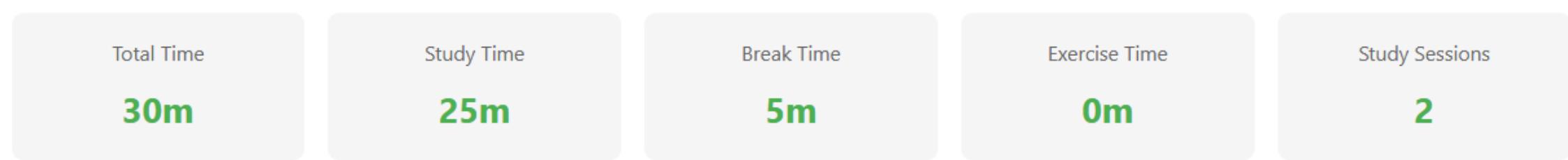
Your Generated Study Routine

Routine Statistics

Total Time	Study Time	Break Time	Exercise Time	Study Sessions
30m	25m	5m	0m	2

Routine Timeline

1 📚 **Study: Maths**
15 minutes
Session 1

2 ☕ **Fresh Air**
5 minutes

3 📚 **Study: Science**
10 minutes
Session 2

▶ Start Pomodoro Timer   💾 Save Routine

⏱️ **Pomodoro Timer**

Stay focused and take breaks!

14:48

📚 **Study**
Maths - Session 1
1 of 3 sessions

▶ Running   ⏸ Pause   ⏹ Stop

Challenges Faced

1. We initially faced the issues connecting the database with the friends network development.
2. API Keys billing
3. We had troubles while connecting the Gemini API with the Firebase Database.
4. We had issues initially with the responsiveness of the website.

Solution for the Challenges

1. Friends Network Issue : We changed a set of rules in the firebase database to fix it.
2. To overcome the API Billing, we researched and selected Gemini API since it aligned with the topic
3. Firebase to Gemini API : We accomplished it by import command
4. Responsiveness: We later worked on the @media queries for it

SePP - School Educational & Productivity Platform is a Modern solution for our modern problems. SePP helps students create and maintain personalized planners.

It improves learning efficiency, offers instant personalized report & routine generation, encourages consistent practice, and helps students stay organized through data-driven insights.

Scope for Future Improvements

- Adding AI-based personalised recommendations
- Integration with cloud databases for real-time syncing
- Gamification elements (badges, levels, leaderboards)
- Voice-enabled learning or chatbot guidance
- More advanced analytics and peer comparison tools