Project Decription

**9arrini : A Tunisien Study Partner Finder**

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## 🎯 Project Goal :

**9arrini** is a web-based platform designed to facilate the way to students in Tunisia to find suitable study partners specially the students with autism or social anxiaty .

The application connects students based on academic interests, availability, and preferred study methods to enhance learning experiences ,maximise their productivity and improving their success.

🎯 Problem Statement :

Many students struggle to find reliable study partners, leading to inefficient study sessions and lower motivation. 9arini provides a structured way for students to connect, study together, and improve their academic results.

🎯 Target Audience :

* University and high school students in Tunisia.
* Students looking for study partners, group study sessions, or exam preparation support,motivation etc..

## ****🚀 Key Features :****

### **1️⃣ User Management**

✅ **User Registration & Authentication** (email/password)  
✅ **User Profiles** (subjects, availability, bio)  
✅ **Password Recovery**

### **2️⃣ Study Partner Matching**

✅ **Search System** (filter by subject, level, availability)  
✅ **Personalized Recommendations** (based on study history & preferences)  
✅ **Invitation System** (shareable invite links)

### **3️⃣ Communication & Collaboration**

✅ **Real-time Messaging**  
✅ **Study Session Scheduling**  
✅ **Feedback & Ratings for Study Partners**

### **4️⃣ Security & Performance**

✅ **Data Protection & Secure Login**  
✅ **Responsive Design for Desktop**  
✅ **Optimized Performance (Fast Loading & Database Optimization)**

### **tools**

5

* Promodo Timer
* To Do list.
* Tasks schedular
* Flah cards(Q/A)
* Quiz
* chat

## ****🛠 Project Tasks :****

### **1️⃣ Planning & Design :**

📌 **Needs Definition**

* Identify key features
* Define the database structure and relationships

📌 **Technology Choices**

* Use **HTML, CSS, JavaScript** for the frontend
* Use **PHP**  for the backend
* Use **DATABASE** (**MySQL)**
* Set up a local development environment

### 2️⃣ **Frontend Development (HTML/CSS/JS)**

📌 **User Interface Creation**

* Pages: Home, Registration/Login, Profile, Search, Messaging
* Responsive design and intuitive user experience

📌 **Dynamic Interaction**

* Live search and real-time notifications

### 3️⃣ **Backend Development (PHP )**

📌 **User Authentication & Management**

User registration, login, and profile management

📌 **Partner Matching System**

* Partner search with filters (subjects, availability)
* Recommendations based on shared interests

📌 **Invitation & Messaging System**

* Generate and validate invitation links
* Internal messaging system

📌 **Study Session Management**

* Create and track study sessions
* Partner evaluation after each session

📌 **Security & Optimization**

* Data protection (password hashing, SQL injection prevention)
* Unit testing and API validation

### **4️⃣** **DATABASE** (**MySQL)**

* Easy-to-use relational database for storing user profiles, messages, and study sessions

### **4️⃣5 Testing & Deployment**

📌 **Testing and Bug Fixing**

* Backend unit tests (PHPUnit)
* UI tests (Cypress or Selenium)
* Test the platform with real users.

📌 **Production Deployment**

* Host on a web server (Apache/Nginx)
* Configure the online database

📌 **Maintenance & Future Improvements**

* Regular bug fixes and updates
* Add new features (video chat, improved recommendations)