

Checkpoint 2

Team Name: MSUTutorCodez

Website Name: MSUTutorConnect.com

Team Members:

1. Logan Parmenter Role: Team Leader
2. Isam Dayya Role: Member
3. David Saad Role: Member

Server-Side PHP Scripts and Functions

PHP File Name	Purpose / Functionality	Related Page(s) or Components	Functions (if any)
login.php	Handles user/admin login requests	Home Page (Login Section)	validateLogin(\$username, \$password) – Validates user credentials against database
register.php	Processes new student registrations	Home Page (Register Section)	registerUser(\$data) – Stores new user data into the student table
find_tutors.php	Queries database for available tutors by subject	Find Tutors Page	getTutorsBySubject(\$subject) – Retrieves tutor list for selected subject
tutor_profile.php	Loads individual tutor profile info	Tutor Profile Page	getTutorDetails(\$tutor_id) – Gets tutor details from database

submit_request.php	Handles submission of tutoring request forms	Request Tutoring Page	submitTutoringRequest(\$data) – Inserts new tutoring request into database
student_dashboard.php	Shows current student's submitted requests and status	Student Dashboard Page	getStudentRequests(\$student_id) – Retrieves student-specific request data
admin_dashboard.php	Allows admin to manage tutors and view student requests	Admin Dashboard Page	getAllRequests() , getAllTutors() , deleteTutor(\$id) , addOrUpdateTutor(\$data)
logout.php	Ends user session and redirects to homepage	All authenticated pages	logoutUser() – Destroys session and redirects to login
db_connection.php	Reusable DB connection script using PDO	All backend scripts	getDB() – Returns PDO connection

Database Layout

Database Name: msu_tutor_connect

Table 1: Users

Column Name	Data Type	Description	Key
user_id	INT (AUTO_INCREMENT)	Primary key (student/admin)	Primary Key
name	VARCHAR(100)	User's full name	
email	VARCHAR(100)	User's email (unique)	Unique
password	VARCHAR(255)	Encrypted password	
role	ENUM('student', 'admin')	User type	
created_at	DATETIME	Account creation time	

Table 2: Tutors

Column Name	Data Type	Description	Key
tutor_id	INT (AUTO_INCREMENT)	Primary key	Primary Key
name	VARCHAR(100)	Tutor's full name	
subject	VARCHAR(100)	Subject(s) tutored	
email	VARCHAR(100)	Contact email	
availability	TEXT	Availability schedule	
bio	TEXT	Tutor introduction	
created_at	DATETIME	Profile creation time	

Table 3: tutoring_requests

Column Name	Data Type	Description	Key
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request_id	INT (AUTO_INCREMENT)	Primary key	Primary key
student_id	INT	Foreign key to users table	Foreign Key
tutor_id	INT	Foreign key to tutors table	Foreign Key
subject	VARCHAR(100)	Requested subject	
message	TEXT	Description of help needed	
status	ENUM('pending', 'accepted', 'rejected')	Request status	
submitted_at	DATETIME	Time of submission	