Project Risk Register Items

I. Technical Risks (XAMPP & Coding)

These relate directly to the tools and code being used.

- **Setup/Configuration:** Issues with installing XAMPP, getting modules (like Apache or MySQL) to start, or initial path setup.
- **Version Incompatibility:** Conflicts between the specific versions of PHP/MySQL used by XAMPP and external code or libraries.
- **Module Failure:** Apache or MySQL unexpectedly failing to run during development.
- **Database Corruption:** Loss or damage to the MySQL database, tables, or stored data.
- **Dependency Conflicts:** Issues when installing third-party PHP libraries or frameworks.
- **Code Defects:** Errors, bugs, or security vulnerabilities introduced in the application code.
- **Authentication Failure:** Problems with user logins, session management, or access control.

II. Environmental & System Risks

These relate to the machine and operating system where XAMPP is running.

- **Port Conflict:** Another program (like Skype or another server) is using a necessary port (e.g., Port 80, 443, or 3306).
- **Firewall Block:** Local or network firewall preventing browser access to the XAMPP server.
- **Hardware Failure:** Computer/laptop malfunction causing downtime or data loss.
- **Operating System Updates:** OS updates breaking XAMPP functionality.
- **Data Loss:** Unsaved work or lack of backups leading to lost code or database changes.

III. External & Security Risks

These relate to security and external factors that could compromise the project.

- **Injection Attacks:** Vulnerability to SQL Injection or Cross-Site Scripting (XSS).
- **Data Breach:** Unauthorized access to user data or sensitive information.
- **Exposure of Credentials:** Storing database passwords or sensitive keys in unsecured code files.
- **Library Vulnerability:** A known security flaw found in a third-party library or framework being used.
- **Malware/Virus:** System infection impacting project files or execution environment.

IV. Planning & Scope Risks

These relate to how the students manage their work and expectations.

- **Scope Creep:** Uncontrolled addition of new features beyond the original plan.
- **Resource Strain:** Team members being unavailable or workload being unevenly distributed.
- **Skill Gaps:** Lack of necessary expertise in a specific area (e.g., advanced SQL, complex PHP/framework features).
- **Time Overrun:** Failing to complete tasks within the scheduled timeframe.
- **Documentation Lag:** Documentation failing to keep pace with code development.