**PROJECT 20%**

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| **DUE DATE** | 1. Report to be submitted (Week 13). 2. Presentation (Week 14). |
| **BACKGROUND** | **This GROUP PROJECT carry 20% of total course evaluation marks**   1. Website development (Psychomotor) 2. Project Report (Cognitive) 3. Presentation (Affective) |
| **TASK** | In this project, you will build a moderate-size dynamic website. Each group will have **up to 7 members**, and each member should contribute equally to the project. |
| **Project ideas:**  a) A website of an organization/association you know or involved. (s9, s10)  b) A website for promoting/buying products (E-commerce). (s9, s10)  c) A website for promoting activities or events. (s9, s10)  d) A tutorial website (example: cooking, beauty & grooming, etc.) (s9, s10)  e) A blog (example: travel blog, fashion, beauty, DIY, education etc.) (s9, s10)  f) A system for railway transportation sector (s1,s2 do only this topic) & (s9, s10)  s9, s10: topic a-f  s1, s2: topic f only  **Requirements:**   |  |  |  | | --- | --- | --- | | **No** | **Category** | **Description** | | 1 | Page Count and Content | Website must contain 6 to 12 pages (through navigation bar/hyperlinks), each serving a distinct purpose. Content should be organized and thematic. | | 2 | Frontend Development | Utilize HTML, CSS, and JavaScript for developing the frontend. Ensure a cohesive visual appearance with consistency in colour scheme, typography, and layout. | | 3 | Backend Development | Develop a backend to handle data processing, user authentication, and server-side logic. Preferably use languages like PHP, Node.js, or Python with frameworks as appropriate. | | 4 | Use of Frameworks (Optional) | The use of frameworks for both frontend and backend development are optional. Students are encouraged to explore and possibly use frameworks like Laravel, React, Vue, Angular, Express, Django, etc. | | 5 | Navigation and Organization | Implement a consistent and intuitive navigation system with a clear menu structure and accessible navigation elements. | | 6 | Readability and Accessibility | Text must be readable with high contrast and appropriate font sizes. | | 7 | Multimedia Content | Include at least five relevant images and enrich content with accessible multimedia elements (videos, audio clips, animations). | | 8 | Database Integration | Implement a database with at least three related tables to support the website's functionality. | | 9 | CRUD Operations | Support Create, Read, Update, and Delete operations for interactive content management. | | 10 | Responsive Design | Ensure the website is accessible and provides a seamless experience across various devices. | | 11 | Security Measures | Implement basic security measures to protect user data and prevent vulnerabilities. Validate and sanitize user inputs. |   **Content of Report:**   1. Cover page with list of group members and Section number 2. Project Report 3. Abstract: Summarizes the entire project including objectives, methodologies, main findings, and conclusions 4. Chapter 1: Introduction, objective, scope, the significance of developing the   website   1. Chapter 2: Technical details & requirements of the website (i.e. user   requirement, system requirement, hardware-software requirement,  Programming language, databases etc.) with citation using Mendeley   1. Chapter 3: Design (i.e., database, interfaces, web-tree diagram) 2. Chapter 4: Implementation (i.e. partial coding – with explanations) 3. Chapter 5: Results (i.e. user manual, flow of the web/system) and Discussion 4. References (using Mendeley and follow UTHM references format) 5. Presentation of the project (15 – 20 mins). During the project presentation session, all members must attend, and the lecturer may pose questions to each group member.   **Report Format:**  a) Use font Times New Roman (11) with (1.15) line spacing.  b) Justify (Alignment).  c) Include ALL the group members' names and matrix no.  **References:**  Download and Install Mendeley System References Management for Desktop and MS Word Plugin  <https://www.mendeley.com/reference-management/mendeley-desktop>   * Search research papers, journals, and books only from the year 2020-2024 * Minimum References 10 | |

**Assessments:**

In most cases, all group members will receive the same mark. However, in cases where there is a clear difference in understanding of the topic between the group members, the lecturer will differentiate the marks awarded. Your work will be graded based on the following aspects.

**A. Project Report (CLO1) - Total: 5 Marks**

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| **Criteria** | **Excellent (5)** | **Good (4)** | **Satisfactory (3)** | **Needs Improvement (1-2)** | **Unsatisfactory (0)** | **Marks** |
| Abstract (C1) | Concise, engaging, and inclusive of all critical elements. | Well-summarized but may lack a minor detail or element of style. | Covers basic information but may lack clarity or conciseness. | Vague, incomplete, or missing key elements. | Missing or irrelevant to the project. | \_\_\_ x 0.15 |
| Chapter 1: Introduction (C2) | Thoroughly sets the stage for the project with in-depth rationale. | Clear objectives and scope, with minor room for more detail. | Adequate introduction, but lacking in depth or specificity. | Insufficient explanation of the project's importance. | No clear objective or significance stated. | \_\_\_ x 0.158 |
| Chapter 2: Technical Requirements (C3) | Comprehensive and excellently cited technical details. | Good technical detail with generally proper citation. | Meets basic technical details but with some citation errors. | Lacks significant technical or citation detail. | Missing or incorrect technical details and citations. | \_\_\_ x 0.167 |
| Chapter 3: Design (C3) | Exceptional design detail, clarity, and innovation. | Well-designed with minor areas lacking detail. | Functional design but lacks innovation or clarity. | Poorly structured or incomplete design elements. | No coherent design presented. | \_\_\_ x 0.167 |
| Chapter 4: Implementation (C4) | Exemplary code with clear, detailed explanations. | Good implementation with mostly clear explanations. | Adequate code with some explanation but missing depth. | Insufficient detail or clarity in coding and explanations. | Incomplete, incorrect, or missing implementation. | \_\_\_ x 0.179 |
| Chapter 5: Results and Discussion (C4) | In-depth analysis with comprehensive discussion of results. | Clear results and good discussion with minor omissions. | Satisfactory presentation of results, but discussion lacks depth. | Limited results and minimal discussion. | Results and discussion are missing or irrelevant. | \_\_\_ x 0.179 |
| **Total Marks** | | | | | | \_\_\_ / 5 |

**B. Website Development (CLO2) – Total: 8 Marks**

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| **Criteria** | **Excellent (5)** | **Good (4)** | **Satisfactory (3)** | **Needs Improvement (1-2)** | **Unsatisfactory (0)** | **Marks** |
| Localhost Deployment (P1) | Flawless deployment, excellent understanding of server setup. | Successful deployment with minor issues. | Functional deployment, some troubleshooting needed. | Issues in deployment, needs significant help. | Unable to deploy. | \_\_\_ x 0.25 |
| Database Integration (P2) | Advanced database integration with complex queries and optimization. | Good integration, well-structured queries. | Adequate integration, basic queries. | Database present but poorly integrated. | No functional database. | \_\_\_ x 0.30 |
| Interface & Navigation (P4) | Exceptional UI/UX, intuitive and innovative navigation. | Good UI, clear navigation with minor issues. | Adequate UI/UX, navigation functional. | UI/UX or navigation can be significantly improved. | Poor or non-functional UI/UX. | \_\_\_ x 0.32 |
| CRUD Security (P3) | Robust security in CRUD operations, inputs well-validated/sanitized. | Good security practices, minor improvements needed. | Basic security measures in place, some vulnerabilities. | Inadequate security, high risk of vulnerabilities. | No security measures, unprotected operations. | \_\_\_ x 0.34 |
| Responsive Design (P4) | Fully responsive and seamless experience across all devices. | Generally responsive with minor inconsistencies. | Some responsiveness, notable issues on some devices. | Limited responsiveness, major issues on several devices. | Non-responsive design. | \_\_\_ x 0.39 |
| **Total Marks** | | | | | | \_\_\_ / 8 |

**C. Presentation (CLO3) - Total: 7 Marks**

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| **Criteria** | **Excellent (5)** | **Good (4)** | **Satisfactory (3)** | **Needs Improvement (1-2)** | **Unsatisfactory (0)** | **Marks** |
| Clarity & Confidence (A1) | Exceptionally clear and confident, engages audience. | Clear and confident, minor nervousness. | Understandable but could be more confident or engaging. | Difficult to follow, lacks confidence. | Incoherent presentation, very poor delivery. | \_\_\_ x 0.45 |
| Depth of Knowledge (A2) | Demonstrates deep understanding, can answer all questions thoroughly. | Good understanding, can answer most questions. | Adequate knowledge, struggles with some questions. | Limited understanding, unable to answer several questions. | Poor grasp of the topic, cannot answer questions. | \_\_\_ x 0.47 |
| Structure & Demo (A3) | Well-structured presentation with an effective demonstration. | Good structure, effective demonstration with minor issues. | Adequate structure, demo lacks detail. | Poor structure, ineffective or no demonstration. | No clear structure, lacks demonstration. | \_\_\_ x 0.48 |
| **Total Marks** | | | | | | \_\_\_ / 7 |