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| **SUBJECT** | **Project 1**  **PRT150S, PRT151S, PRT152S,** | |
| **LECTURERS:** | **Mr. Thurlo Cicero** | [**CiceroT@cput.ac.za**](mailto:CiceroT@cput.ac.za) |
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| **TERM 3:** | **Term 4 Assessment** | **Total Mark: 100 marks** |
| **DUE DATE:** | **27 October 2024 23H59** | **WEIGHT:** 40% |
| **Submission Instructions:** | | |
| 1. In groups of 4 to 6 read the scenario below and follow instructions. At the bottom there is a list of deliverables for this term and marking rubric. 2. **Only groups of 4 to 6 are permitted. No exceptions**. Any work submitted without the required number of group members will attract a mark of zero. 3. **All group members should sign up under the correct group on Blackboard** otherwise you will not be able to upload and view feedback. 4. Your assessment document should have **a cover page with your group details that is Group name, your Student Numbers, Names and Surnames, Class Group as well as Subject code e.g. PRT150S, PRT151S, PRT152S.** This is particularly important for students that have group members from different specialisations. It is your responsibility to ensure that the lecturers can find your name and capture your marks under current subject codes. 5. You are required to upload an electronic copy of this assessment on Blackboard under Term 4 Assessment. No emails or other cloud alternatives will be accepted. Each student needs to submit the assignment under their profile on Blackboard. 6. If Blackboard gives you any issues, then take a screenshot and try again. If the issue persists, inform your lecturers via email (see email addresses above) before the deadline.   ***NB:*** *There will be a 10% per day penalty for late submissions. No projects will be accepted* ***three days*** *after the deadline date.* | | |
| **Name your file accordingly:** use the following format to save your document: -  Group Name\_Class Group\_Assessment 4\_Term4 e.g. Project 1 \_Group1A\_Assessment 4\_Term4.  Upload your documentation in word or pdf **DO NOT zip your document in a folder**. | | |
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| ***Please read through the specification below properly. Ask questions if you are not sure or do not understand.***  ***Check work before handing anything in. Any missing work will result in a deduction of marks.*** | | |

**Project 1 Project - NGOs and Community Development Website (HTML CSS & JAVASCRIPT)**

Scenario

Consider the following scenario: You are part of a group of Web Developers / Programmers (four) tasked with creating a website for an NGO dedicated to community development. This NGO aims to improve various aspects of the local community, including education, health, and environmental sustainability. Your goal is to develop a user-friendly, informative, and interactive website that showcases the NGO’s initiatives, allows for volunteer sign-ups, and provides a platform for donations.

*Overview*

## As a Web Programmer, you are requested to develop a website to achieve the following:

1. **Home Page**: Design a welcoming home page that includes an introductory section about the NGO, with images and text.
2. **About Us Page**: Create a detailed page about the NGO, including its mission, vision, and history.
3. **Projects Page**: Develop a page that showcases various projects undertaken by the NGO. Each project should have an image, a brief description, and a link to a detailed project page.
4. **Volunteer Sign-Up Form**: Implement a form that allows users to sign up as volunteers. The form should collect user input, including name, contact details, area of interest, and availability.
5. **Donation Page**: Create a page that provides information on how to donate to the NGO, including a form to collect donor information and donation amount.
6. **Contact Us Page**: Design a page with a contact form for general inquiries, including fields for name, email, subject, and message.
7. **Interactive Elements**: Use JavaScript to add interactivity to the website, such as form validation, dynamic content display, and image galleries.

*Website Requirements*

# HTML Requirements:

* + Use of HTML forms and input elements for the volunteer sign-up and contact forms.
  + Proper use of HTML to structure the content of each page, including headings, paragraphs, lists, and links.
  + Incorporation of images using the <img> tag.

# CSS Requirements:

* + Use CSS to style the HTML elements, ensuring a cohesive and visually appealing design.
  + Implement responsive design techniques to ensure the website is accessible on various devices (e.g., desktops, tablets, smartphones).
  + Use CSS for layout management, such as grid or flexbox, to organize content effectively.

# JavaScript Requirements:

* + Use JavaScript to handle user input and form validation (e.g., ensuring required fields are filled, and validating email addresses).
  + Implement array processing to manage and display project data dynamically.
  + Use selection statements to control the display of content based on user actions (e.g., showing/hiding sections).
  + Handle images with JavaScript to create interactive galleries or slideshows.

*Rubric*

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| **Criteria** | **Excellent (4)** | **Good (3)** | **Satisfactory (2)** | **Needs Improvement (1)** |
| **HTML**  **Structure** | Well-structured, semantic HTML with all required elements | Mostly well- structured HTML with minor issues | HTML structure is basic but functional | Poorly structured HTML with missing elements |
| **Forms and Input Elements** | Fully functional and well-designed forms | Functional forms with minor issues | Basic forms with limited functionality | Incomplete or non-functional forms |
| **Use of Images** | Effective use of images, well- integrated into content | Good use of images with minor issues | Basic use of images | Poor or no use of images |
| **CSS Styling and Layout** | Excellent styling, responsive design, and effective layout | Good styling and layout, mostly responsive | Basic styling, partially responsive | Poor styling and layout, not responsive |
| **JavaScript Functionality** | Advanced use of JavaScript for interactivity and data handling | Good use of JavaScript with minor issues | Basic use of JavaScript | Little or no use of JavaScript |
| **Form Validation** | Robust and user- friendly form validation | Functional validation with minor issues | Basic validation, partially functional | No or poor form validation |

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| **Criteria** | **Excellent (4)** | **Good (3)** | **Satisfactory (2)** | **Needs Improvement (1)** |
| **Array Processing** | Efficient array processing, dynamic content display | Good array processing with minor issues | Basic array processing | No or ineffective array processing |
| **Selection Statements** | Effective use of selection statements for content control | Good use of selection statements with minor issues | Basic use of selection statements | Little or no use of selection statements |
| **User Input Handling** | Efficient and user- friendly input handling | Good input handling with minor issues | Basic input handling | Poor or no input handling |
| **Overall Presentation** | Professional, cohesive, and visually appealing website | Good overall presentation with minor issues | Basic presentation, functional | Poor presentation, lacks cohesiveness |

*Submission Instructions*

* Each group should submit a zip file containing all HTML, CSS, and JavaScript files, along with any images or other assets used.
* Ensure that all files are well-organized and appropriately named.
* Include a README file with instructions on how to view the website locally.
* Submit the assignment through the designated submission platform by the due date.

**TERM 4 Deliverables**

1.Artefact - website (completed website as instructed)

2. Documentation

1. Updated and complete Project charter - outlining the business case, purpose, organization’s overall mission and vision, scope (including the project’s boundaries, deliverables, and acceptance criteria), goals/objectives, dates, budget and time frames, user requirements, system requirements, technical aspects of the web site, resources, key stakeholders, roles and responsibilities, risks, communication protocols, key milestone schedule, etc.
2. Wire frames and design aspects of the project
3. Updated, extended and complete Gantt Chart

- Clearly showing all the tasks, sub tasks, phases, durations, start dates, end date dates, dependencies or relationships, milestones and the resources to be used to carry out the tasks

- Tasks should reflect all the work that needs to be done for the project, including work towards the different term deliverables, final artefact, documentation and well as project presentation and demo.

- Gantt chart to be followed to ensure timely completion or the milestones, products, and project. Evidence of progress must be submitted.

1. Risk management - Outline risks identified in the project and how they were managed
2. Conflict management - how you handled conflict in the project.
3. Reflection report - group (experience, issues encountered, problems solving, lessons learnt and suggestions for improvement)
4. Agenda and minutes of meetings held during the course of the project.

3. Presentation / Demo

- video (all group members to participate)

- 10 slides (maximum slides)

- 10 minutes (overall time for presentation)