

# PULZAR Society

## Competition Evaluation Criteria

### Web Based

#### ➤ CMS

##### 1. Design and User Interface (35%)

- Is the theme visually appealing and aligned with the project's goals?
- Are the design elements consistent (colours, fonts, layout)?
- Is the design responsive and mobile-friendly?

##### 2. Theme Customization and Quality (30%)

- **Custom Themes:** If a custom theme is used, assess how well it integrates with the CMS. Does it follow CMS best practices (child themes, template overrides)?
- **Theme Responsiveness:** How does the theme handle different screen sizes? Check across devices like mobile, tablet, and desktops.

##### 3. Functionality and Features (20%)

- Does the site meet the project's core functional requirements?
- Are all necessary plugins/modules installed and functioning properly?
- Is there custom functionality added, or is it entirely reliant on third-party plugins?

##### 4. Content Management (10%)

- How well does the project utilize the CMS's content management features (e.g., categories, tags, custom post types)?
- Is the content structured in a user-friendly and organized manner (pages, posts, navigation)?

- Is the admin interface easy for non-technical users to manage content?

## ➤ Website

### 1. HTML Structure (30%)

- **Basic Structure** : Ensure the HTML includes essential elements like `<!DOCTYPE>`, `<html>`, `<head>`, `<body>`, etc.
- **Correct Use of Tags**: Check if appropriate tags (e.g., headings, paragraphs, lists, images, and links) are used correctly.
- **Semantics** : Evaluate the use of semantic HTML tags (e.g., `<header>`, `<nav>`, `<main>`, `<footer>`) if taught.

### 2. CSS Styling (25%)

- **Basic Styling** : Evaluate the use of basic styling properties like color, font, margin, padding, borders, etc.
- **Layout and Alignment (10%)**: Check the use of CSS for positioning elements (using flexbox or basic floats).
- **Responsiveness (5%)**: Check if basic responsiveness is implemented using media queries (if covered in the course).

### 3. JavaScript Functionality (20%)

- **Basic Interaction (10%)**: Check if the project includes simple JavaScript functionality like button clicks, form validation, or displaying alerts.
- **Correct Syntax and Comments (10%)**: Evaluate the use of correct JavaScript syntax and simple comments explaining the code.
- **Error-Free (5%)**: Ensure that there are no obvious JavaScript errors in the browser console.

### 4. Design and Aesthetics (15%)

- **Basic Design Consistency (5%):** Check if the design looks clean and consistent in terms of color schemes, fonts, and layout.
- **Creativity (5%)\*:** Evaluate any effort towards making the project look unique or interesting within the bounds of their knowledge.

#### **5. Code Organization and Readability (5%)**

- **Code (3%):** Ensure that the HTML, CSS, and JavaScript are well-organized (proper indentation, spacing).
- **Comments (2%):** Basic comments explaining what the code does, especially for JavaScript.

# Desktop Application

## **1. Functionality (30%)**

- **Core Features:** Does the application fulfil its intended purpose and meet the requirements? Are all essential features working as expected?
- **Completeness:** Is the application complete, or are there missing features or functionality gaps?

## **2. User Interface and Experience (25%)**

- **Design Consistency:** Are the UI components (buttons, forms, menus) consistently designed?
- **Ease of Use:** Is the application intuitive for the end-user? Are common tasks easy to accomplish without a steep learning curve?

## **3. Error Handling and Stability (10%)**

- **Crash Prevention:** How stable is the application? Does it crash under certain conditions or handle errors gracefully?

#### 4. Security (10%)

- **Authentication and Authorization:** If the application requires user login, is there secure authentication?

#### 5. Data Handling and Persistence (20%)

- **Data Storage:** How well is data stored and retrieved? Does the application use an efficient database or file system for handling data?
- **Data Import/Export:** Can users easily import/export data into/from the application in standard formats (e.g., CSV, JSON, XML)?

## Open-Source Electronic Platform (Arduino)

#### 1. Project Concept (10%)

- **Feasibility:** Is the concept realistic and achievable within the constraints of the Arduino platform and components?
- **Practical Application:** How practical or useful is the project in real-world scenarios?

#### 2. Hardware Design and Integration (25%)

- **Component Selection:** Are the right sensors, actuators, and modules selected for the project? Are the chosen components optimal for the project's needs?
- **Wiring and Circuitry:** Is the hardware wiring neat, organized, and following best practices for circuit design? Are there proper safeguards against short circuits and other potential issues?
- **Integration:** How well do the hardware components work together? Is there smooth communication between sensors, motors, displays, etc.?

#### 3. Programming and Code Quality (20%)

- **Efficiency:** Is the Arduino code well-optimized and efficient? Does it avoid unnecessary delays, memory overuse, and excessive processing?
- **Modularity:** Is the code written in a modular fashion (e.g., use of functions, clean organization)?
- **Error Handling:** Does the code handle potential errors (sensor failures, communication issues) gracefully without causing the project to crash or malfunction?
- **Comments:** Is the code well-commented, explaining key functions and logic? Is it easy for someone else to understand and modify the code?

#### 4. Control (10%)

- **Feedback Mechanism:** Does the project provide real-time feedback (through LEDs, displays, sounds, etc.) to indicate its status or actions?
- **Ease of Use:** Is the system user-friendly for non-technical users? Are there clear instructions on how to use it?

#### 5. System Performance and Reliability (10%)

- **Accuracy:** Are the sensor readings accurate, and does the system behave as expected under different conditions?
- **Stability:** How stable is the system? Does it continue functioning over long periods without issues (like overheating, power supply problems)?
- **Response Time:** How quickly does the system respond to inputs and execute commands? Is the response time reasonable for the application?

#### 6. Power Management (10%)

- **Power Consumption:** How efficiently does the system use power? Are there techniques in place to reduce power consumption (sleep modes, low-power components)?
- **Battery Life:** For battery-powered projects, how long does the system run on a single charge, and is the power source appropriate for the project?
- **Safety Considerations:** Are there precautions in place to avoid overheating or overloading the components, especially if running for extended periods?
- **Presentation:** How well is the project presented to the audience or judges? Is it explained clearly, and are its features and functions demonstrated effectively?
- **Compatibility:** Can the project be adapted for other platforms (e.g., adding Bluetooth, Wi-Fi modules, or connecting it to cloud services)?

#### 9. Wireless Capabilities (if applicable)(10%)

- **Connectivity:** Does the project use wireless communication (e.g., Bluetooth, Wi-Fi) for remote control or data transmission?

# Digital Arts & Videography

## 1. Creativity & Originality (20%)

- **Digital Arts:** Does the artwork present a unique perspective? Is it original or does it replicate existing works?
- **Videography:** Is the concept fresh and imaginative? Does it introduce innovative storytelling techniques?

## 2. Technical Skill (25%)

- Digital Arts: **Quality of digital techniques like illustration, use of software tools, design elements (color, texture, depth), and attention to detail.**
- Videography: **Proficiency in video editing, sound design, camera work, lighting, and smooth transitions.**

## 4. Visual Aesthetics & Composition (15%)

- Digital Arts: **Balance of elements, visual appeal, harmony between colors, and the overall impact on the viewer.**
- Videography: **Framing, shot composition, and the visual narrative's clarity and coherence.**

## 5. Storytelling & Concept (15%)

- Digital Arts: **Does the artwork convey a clear message or story? Is there depth in the concept?**
- Videography: **Is the video's storyline engaging, coherent, and impactful? Does it successfully communicate its intended message or narrative?**

## 6. Audience Engagement (10%)

- Digital Arts: **How captivating is the artwork? Does it hold the viewer's attention?**
- Videography: **Does the video evoke an emotional response or connect well with the audience?**

## 7. Presentation & Professionalism (10%)

- **How well is the work presented? This could include file quality, adherence to submission guidelines, and attention to detail in the final product.**

(If the submission is a video, it must have a minimum duration of 3 minutes and a maximum of 5 minutes)