Spark Maintenance Guide

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Spark Challenge Page:

Tabs

- This section holds different tabs for each academic year, helping to organise the events. Each tab allows users to view events specific to a particular year, making it easier to navigate and manage the events being offered.

1. **Name**:
   This is the year(e.g., "Celebration 2025/26").

2. **Description**:
   This explains what theSpark Challenge for that year is about. It describes the section (e.g., What the Spark Challenge for that year is goes here)
   Note: Keep this description under **500** characters - **Provided by the sponsor**

3. **Winning Team**:
   Each tab showcases the winner.

   a. **Team Name**:
      This is the name of Winning team for that year.

   b. **Team Description**:
      A short summary of what the winning team's project is about.
      Note: Keep this description under **800** characters.

   c. **Images**:
      Make sure the images are in the correct folders with the correct format (png, jpg, jpeg)

      - There are 4 folders: challenge, piMora, techDemo and finalYear
      - **Note**: You can add a maximum of **2** images per event.
        (e.g. "`/images/maintainedData/challenge/image_name.png`")

   d. **Members**:
      This is a list of names of people who participated in the winning team (e.g., "John Doe, Jane Smith").
      Note: You can include a maximum of **5** members.

4. **Runner - Up Teams**: (**Note:** Max of **2** Teams)
   Inside each tab, there are details about the runner up teams for that year.

   a. **Team Name**:
      This is the team name of each runner up for that year.

   b. **Event Description**:
      A short summary of what the team's project is about.
      Note: Keep this description under **800** characters.

   c. **Images**:
      Make sure the images are in the correct folders with the correct format (png, jpg, jpeg)

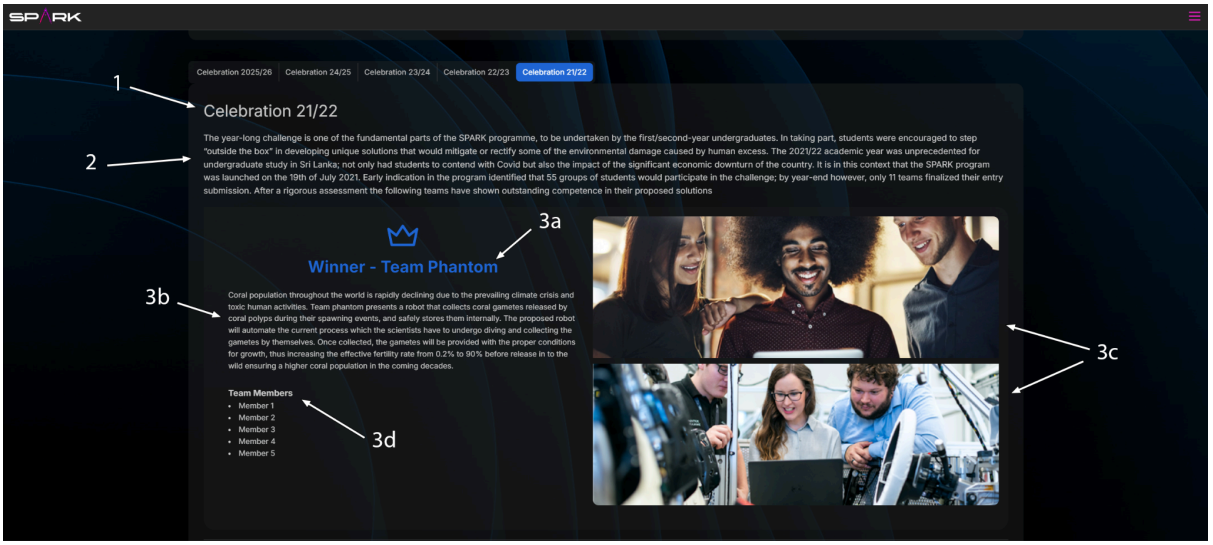
      - There are 4 folders: challenge, piMora, techDemo and finalYear
      - **Note**: You can add a maximum of **2** images per event
        (e.g. "`/images/maintainedData/challenge/image_name.png`")

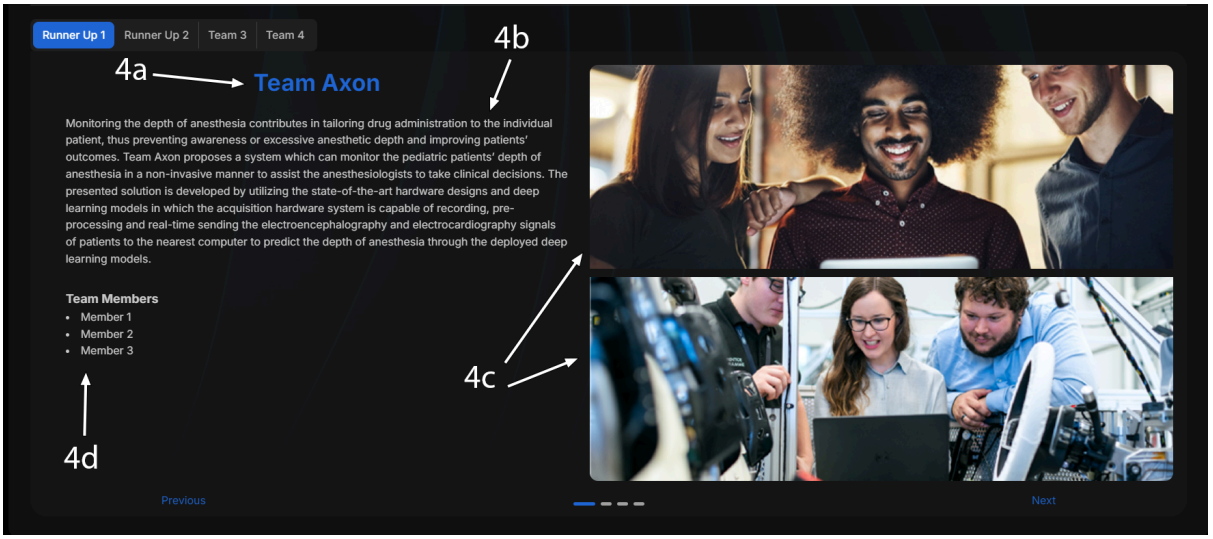
   d. **Members**:
      This is a list of names of people who participated in the event (e.g., "John Doe, Jane Smith").
      Note: You can include a maximum of **5** members.

JSON File Example


```
{
     "name": "Celebration 21/22",
     "description": "The year-long challenge is one of the fundamental parts of ...",
     "winnerTeam": {
       "name": "Winner - Team Phantom",
       "description": "Coral population throughout the world is rapidly ..",
       "members": ["Member 1", "Member 2", "Member 3", "Member 4", "Member 5"],
       "images": ["/images/image_1.png", "/images/image_4.png"]
     },
     "runnerUpTeams": [
       {
         "name": "Team Axon",
         "description": "Monitoring the depth of anaesthesia contributes in ...",
         "members": ["Member 1", "Member 2", "Member 3"],
         "images": ["/images/image_1.png", "/images/image_4.png"]
       },
       {
         "name": "Team Fixit",
         "description": "Water pollution is a critical issue in the modern world. ...",
         "members": ["Member 1", "Member 2", "Member 3"],
         "images": ["/images/image_3.png", "/images/image_4.png"]
       }
     ]
   }
```

Image Example





PI Community Page:

Note: TechDemo and Final Year follow the same logic and structure.

Note: **DO NOT** add any members under Pi-Mora, you can just leave it blank

Section

(**Note:** Sections are the following: PI-MORA, Technology Demonstrators and Final Year)

Title:
This is the name of the section (e.g., "PI - MORA").

Description:
This explains what the section is about. It describes the section (e.g., What PI-MORA is, goes here)
Note: Keep this description under **500** characters.

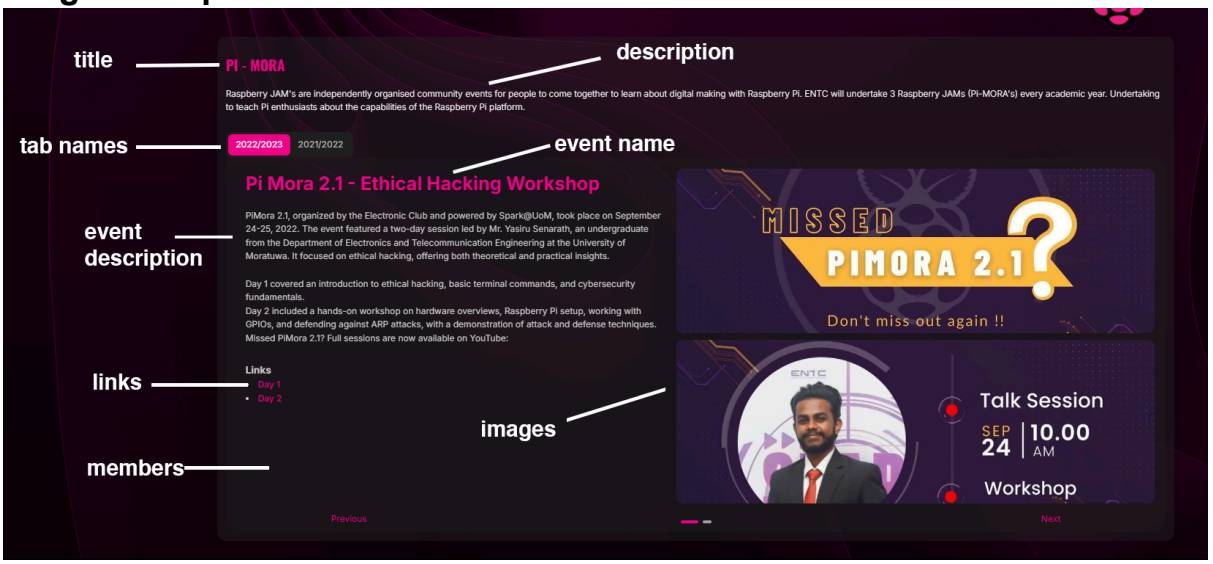
Tabs:
This section holds different tabs for each academic year, helping to organise the events. Each tab allows users to view events specific to a particular year, making it easier to navigate and manage the events being offered.

1. **Tab Name**:
   Each tab has a name that indicates the year of the events (e.g., "2024/2025").
2. **Details**:
   Inside each tab, there are details about the events happening that year.
   a. **Event Name**:
      This is the title of each event (e.g., "Event Name 1").
   b. **Event Description**:
      A short summary of what the event is about.
      Note: Keep this description under **800** characters.
   c. **Images**:
      Make sure the images are in the correct folders with the correct format (png, jpg, jpeg)
      - There are 4 folders: challenge, piMora, techDemo and finalYear
      - **Note**: You can add a maximum of **2** images per event.
        (e.g. “`/images/maintainedData/challenge/image_name.png`”)
   d. **Members**:
      This is a list of names of people who participated in the event (e.g., "John Doe, Jane Smith").
      Note: You can include a maximum of **5** members.
      Note: If Members are not there it will be hidden.
   e. **Links**:
      Add any links here with a name and the url that link should go to.
      Note: Refer to Json below on how to add a link
      Note: Leave empty if no links are needed.

JSON File Example

```
{
  "title": "PI - MORA",
  "description": "Raspberry JAM's are independently organised community events ...",
  "tabs": [
    {
      "name": "2024/2025",
      "details": [
        {
          "name": "24/25 - Event Name 1",
          "description": "Explore the wonders of nature in our stunning ...",
          "images": ["/images/image_1.png", "/images/image_2.png"],
          "members": ["Alice Johnson", "Bob Smith"],
          "links": [
            {
              "name": "Day 1",
              "url": "https://bit.ly/3rJTDo1"
            },
          ],
        },
        {
          "name": "24/25 - Event Name 2",
          "description": "This is a description for Event 2 in Year 2024/2025...",
          "images": ["/images/image_3.png", "/images/image_4.png"],
          "members": ["Charlie Brown", "Diana Prince"],
            "links": [
            {
              "name": "Day 1",
              "url": "https://bit.ly/3rJTDo1"
            },
          ],
        }
      ]
    }
  ]
}
```

Image Example



Extra Notes:

Note: If you want to add separate paragraphs in the descriptions, use **\n** for a single line or **\n\n** for double lines. (e.g. “`...practical insights.  \n\nDay 1 covered...`”)

Note: Make sure the images are in the correct folders with the correct format (png, jpg, jpeg)
There are 4 folders: challenge, piMora, techDemo and finalYear
(e.g. “`/images/maintainedData/challenge/image_name.png`”)

Note: Maintained data is within the constants folder.
There are 4 json files: challenge, pi_mora, tech_demo and final_year
(constants => challenge => challenge.json)
(constants => community => pi_mora.json)
(constants => community => tech_demo.json)
(constants => community => final_year.json)

Note: Constants for colors and image urls
(utils => color_utils)
(utils =>image_utils)

How to Build the App

This guide will walk you through the steps to build the application and prepare it for hosting. Follow the instructions carefully to ensure a successful build.

Build the Application

1. **Open the Project in VSCode**
   Launch Visual Studio Code (VSCode) on your computer.
   Click on **File > Open Folder** and select the folder containing the project files.
   Ensure the folder name ends with `/spark-web`.
2. **Open the Terminal in VSCode**
   In VSCode, click on **Terminal** in the top menu and select **New Terminal** from the dropdown.
   Ensure the terminal is open in the `/spark-web` directory.

Clean and Install Project Dependencies
In the terminal, type the following command to clean and install all necessary dependencies:
`npm run clean`

3. This installs all required packages before building.

Run the Build Command
Type the following command in the terminal:
`npm run build`

4. The build process may take a few moments to complete, depending on your system.
5. **Run the Build Command and Wait for Completion**
   Once the build process is complete, a folder named `out` will be created or updated in the project directory, containing all the necessary files for hosting the application.
6. **Prepare the `out` Folder for Hosting**
   The `out` folder is the output directory with all the built files.
   To host the application, upload the `out` folder to your server.
   (We have sent this `out` folder before to you as a zip, which you used to host the site on your server)

Prerequisites

- Ensure you have Node.js and npm installed on your system before running the build process.
- Install Visual Studio Code (VSCode) to follow these instructions.

Notes

- Run `npm cache clean --force` to clear the npm cache if you encounter dependency issues during installation or building.
- The `npm run clean` command also handles installing dependencies, so there is no need to run `npm install` separately.
- If you encounter any issues, double-check that you're in the correct project directory and that all dependencies have been installed.