CodeQuest

Overview

Imagine a Future-Ready India — a nation that is innovative, sustainable, inclusive, and empowered to lead the world. Inspired by the vision of Viksit Bharat, we recognize that building such a nation requires young minds who can think boldly and act responsibly. Participants will use their problem-solving, critical-thinking, and creativity to design innovative solutions that address real-world challenges across sustainability, technology, community development, and nation-building. Together, we can shape a developed, resilient, and future-ready nation.

The competition consists of four stages, each with distinct objectives

1. Ideation Round: Participants submit their project ideas by the specified date through the provided link.
2. Mentoring Round: A mentoring session will be held for all participants via ablskool.com (LMS) to understand more about the event and rules. Interested participants can also opt for Online mentoring (Optional) to refine their projects with expert guidance.
3. Zonal Round: A virtual round where participants showcase their projects by submitting a video and the synopsis for their project.
4. Finale: The top 20% teams from each zone advance to compete in the grand finale.

Themes of Competition

NextGen School Solutions

Problem Statement

Schools often face everyday challenges such as traffic congestion near the school gate during arrival and dispersal, water leakage, cleanliness issues, electricity wastage, improper waste disposal. In this theme, participants will identify a real-life problem within their school environment and create an interactive project using block-based coding to present the problem and its solution.

Objective

To encourage students to carefully observe their school environment and identify real-world challenges that impact daily life. It inspires them to think creatively and develop practical, technology-driven solutions to address these issues effectively.

Key Features to Address

1. Clearly identify and explain a real problem faced in the school environment.
2. Create an interactive animation, story, game, or simple application using block-coding to demonstrate the problem and its possible solution.
3. Include engaging visuals, characters, and messages that promote awareness and responsible behavior among students and the school community.

Viksit Bharat

Problem Statement

India is moving towards the vision of becoming a Viksit Bharat (Developed India) through innovation, technology, and sustainable growth. In this theme, participants will create an interactive project using block-based coding platforms that highlights ideas and solutions that can contribute to the development of the nation. Students can focus on areas such as clean cities, smart transportation, digital education, environmental protection, or community development.

Objective

To adopt a visionary mindset towards India's future development by identifying present challenges and emerging opportunities. It inspires them to generate creative, impactful solutions that contribute to nation-building. Through innovative and interactive coding projects, students will effectively express their ideas and showcase their problem-solving abilities.

Key Features to Address

1. Identify key challenges or opportunities related to the development of India and present possible solutions.
2. Use creativity to showcase ideas for a better future.

Healthy India

Problem Statement

A healthy nation depends on the well-being and daily habits of its people. However, many individuals today face health challenges due to unhealthy lifestyles such as poor eating habits, lack of physical activity, excessive screen time, irregular sleep patterns, and limited awareness about mental well-being. Students can focus on practices such as balanced nutrition, regular exercise, outdoor activities, good hygiene, proper sleep, and maintaining mental well-being.

Objective

To promote awareness about healthy lifestyle choices and overall well-being. It motivates individuals to adopt positive daily habits such as regular exercise, balanced nutrition, and proper hygiene.

Key Features to Address

1. Highlight different lifestyle habits that contribute to physical and mental well-being.
2. Use creative animations, stories, games, or interactive projects to promote healthy living.

Rules and Regulations

- Students from Grade 4 and 5 can participate in this competition.
- Each team can have a maximum of 3 participants.
- Participants are free to select any one of the three themes provided:
    - NextGen School Solutions
    - Viksit Bharat
    - Healthy India
- All submissions must adhere to the specified format and guidelines.
- The project must be original and created specifically for the challenge.
- Participants must ensure their submissions are free of any offensive content.
- Late submissions will not be entertained.
- Students can select any platform to build their projects, but that platform must be based on block-based coding.

Guidelines

To ensure a smooth evaluation process, all participants must follow these guidelines:

1. **Idea Submission:**
    - Submit your idea by the specified deadline using the link provided above.
    - Include a clear description of your project, objectives, and expected outcomes.
2. **Project Submission:**
    - Projects must be submitted before the Zonal Round.
    - Submissions should include:
        - A detailed project synopsis (in PDF format).
        - Supporting materials, such as diagrams, code, or videos, if applicable.
3. **Video Presentation:**
    - Prepare a video (max. 5 minutes) explaining your project.
    - The video should include:
        - Team introduction.
        - Explanation of the problem, solution, and project features.
4. **File Format:**
    - Submit all files in acceptable formats, such as PDF, MP4, or ZIP.

- Ensure the naming convention includes your team's name and project title.

5. **Deadline Adherence:**
   - Late submissions will not be accepted under any circumstances.

Evaluation Criteria

All submissions will be evaluated based on the following criteria, with a total score of 100 points:

1. **Innovation and Creativity (25 points):**
   - Originality of the idea.
   - Uniqueness and creative approach to the problem statement.
2. **Feasibility and Practicality (25 points):**
   - How realistic and implementable the solution is.
   - Potential impact and scalability of the project.
3. **Presentation and Communication (25 points):**
   - Clarity and effectiveness in showcasing the idea or project.
   - Professionalism in visual and verbal presentation.
4. **Inculcating STEM and Computational Thinking Skills (25 points):**
   - Proper integration of tools, technologies, or methods.
   - Functionality and user-friendliness of the solution.