TECH FOR KIDS ACADEMY
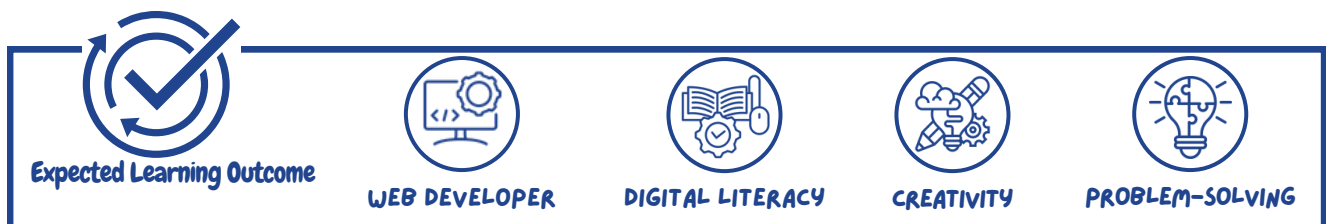
Web Development 102
13-15+ Years old

COURSE DESCRIPTION

A continuation of Web Development 101, introducing JavaScript, React for frontend, and Node.js, Express, and MySQL for backend development. Students will apply these technologies in a project-based format, designing and building a full-stack website and also encourage creativity, planning, and digital literacy.

Expected Learning Outcome

WEB DEVELOPER   DIGITAL LITERACY   CREATIVITY   PROBLEM-SOLVING

TOPIC COVERS

React Basics	Props and State Management	Handling Forms & Interactivity	API Integration	Node.js & Express.js
Backend Development	MySQL & CRUD	Full Stack Integration	Project Planning & Development	End of Course Project

COURSE RUBRIC

Quizzes: 10%

Attendance: 10%

Homework: 10%

Class Participation: 20%

End of Course Project: 50%

TEACHING/LEARNING APPROACH

- **Project-Based Learning:** Students advance their web development skills through hands-on projects that deepen technical understanding.
- **Real-World Application:** Lessons focus on building functional, user-oriented websites that mirror real industry practices.
- **Collaborative Teamwork:** Learners work in groups to design and develop web solutions, enhancing communication and team dynamics.
- **Guided Coding Sessions:** Instructors provide structured support while encouraging problem-solving and independent thinking.

PARENTAL SUPPORT

Parents play a key role by encouraging regular attendance, showing interest in their child's projects, and supporting practice at home. Active involvement reinforces learning and keeps students motivated.

STUDENT COMMITMENT

This weekend course requires consistent attendance, focus during sessions, and a willingness to explore and complete projects. A positive attitude and steady participation help students gain the most from the program.

Important Note: To receive a Certificate of Completion, students must attend at least 60% of the total class sessions (8 sessions out of 12).

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