# **טכנולוגיות אינטרנט מתקדמות - 61776 (WEB)**

**הגשת פרויקט**

**<OnlineQuiz> < B16><Group 4>**

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**Project Summary: Online Quiz Application**

The Online Quiz Application is an interactive platform designed for users to create, play, and manage quizzes effortlessly. This web-based application leverages various technologies to deliver a seamless experience for both quiz creators and participants.

**Key Functionalities:**

1. User Authentication: Users can sign in using their Google accounts, allowing for a secure and streamlined login process. Upon signing in, users’ email addresses and profile pictures are displayed in the header for a personalized experience.
2. Quiz Creation: Admin users can create quizzes with customizable questions and multiple-choice answers. This functionality allows for various topics and difficulty levels, catering to a diverse user base.
3. Quiz Management: Users can view, edit, or delete their quizzes through an intuitive dashboard. This management feature ensures that quiz creators can keep their content up-to-date and relevant.
4. Quiz Playing: Registered users can participate in quizzes, testing their knowledge in various subjects. The platform offers a user-friendly interface for navigating through questions, making it engaging and enjoyable.
5. Dynamic Theme Toggle: Users can switch between light and dark modes, enhancing accessibility and personal preference in visual presentation. This feature contributes to a comfortable user experience across different lighting conditions.
6. Responsive Design: The application is designed to be fully responsive, ensuring compatibility across various devices, including desktops, tablets, and smartphones. This adaptability allows users to engage with quizzes anytime, anywhere.

**Implementation Technologies**:

* Frontend:
  + Framework: Preact for building the user interface, utilizing its lightweight API for efficient rendering and component management.
  + Styling: Tailwind CSS for utility-first styling, providing responsive and customizable design elements.
* Backend:
  + Authentication: Firebase Authentication for secure user login and management.
  + Database: Firebase Realtime Database for storing quiz data and user information in real-time.
* Storage:
  + Media Storage: Firebase Storage for storing user profile images and any media associated with quizzes.

Overall, the Online Quiz Application aims to provide an engaging and user-friendly environment for both quiz participants and creators, enhancing learning and knowledge retention through interactive testing. The use of the Preact API allows for efficient rendering and management of components, contributing to a smooth user experience.

Vercel: <https://hw-3-git-main-marounnas-projects.vercel.app/>

GitHub: <https://github.com/marounna/HW3>

MoretThanwWallet: <https://www.morethanwallet.com/app/869>