

Project Submission Report

Project Title: Klepio – Dental Care That's Always One Step Ahead

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1. Abstract

Klepio is a web-based application designed to assist patients in identifying potential dental conditions through an AI-driven questionnaire system. The platform empowers users to conduct a self-assessment based on symptom inputs, and leverages AI to predict possible diagnoses. The system bridges communication between patients and dental professionals, providing structured and AI-enhanced insights for further consultation.

The application's initial phase focuses on patient-side interaction, with future enhancements planned for doctor dashboards and multilingual access.

Team Member:

- Aniketh Vijesh (AM.EN.U4AIE22009)

Member Contribution:

- Implemented all frontend UI pages for the patient questionnaire using HTML, CSS, and JavaScript.
 - Designed and integrated custom UI assets to match the application theme.
 - Developed a basic neural network model for dental condition prediction.
 - Deployed the backend service on Render.com.
 - Currently working on resolving API communication issues between the frontend and the backend.
 - The planning and design phase was initiated for the implementation of the Doctor/Admin dashboard.
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2. Feature List - Role-based

Patient:

- Access an intuitive self-assessment interface.
- Complete a dynamic questionnaire regarding dental symptoms.

- View AI-generated diagnosis (functionality pending integration).

Doctor/Admin (Planned):

- Access and review patient questionnaire responses.
 - View AI-generated diagnoses for professional validation.
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3. Project files/ Submitted work

- Front-end implementation using HTML, CSS, and JavaScript.
- Custom UI assets and questionnaire logic implemented.
- AI model and scripts to use the model for inference

Please find the code for the project [here](#)