MICHIGAN STATE UNIVERSITY

Alpha Presentation

Dynamic 3D Mouth Model

The Capstone Experience

Team Delta Dental 3DMM

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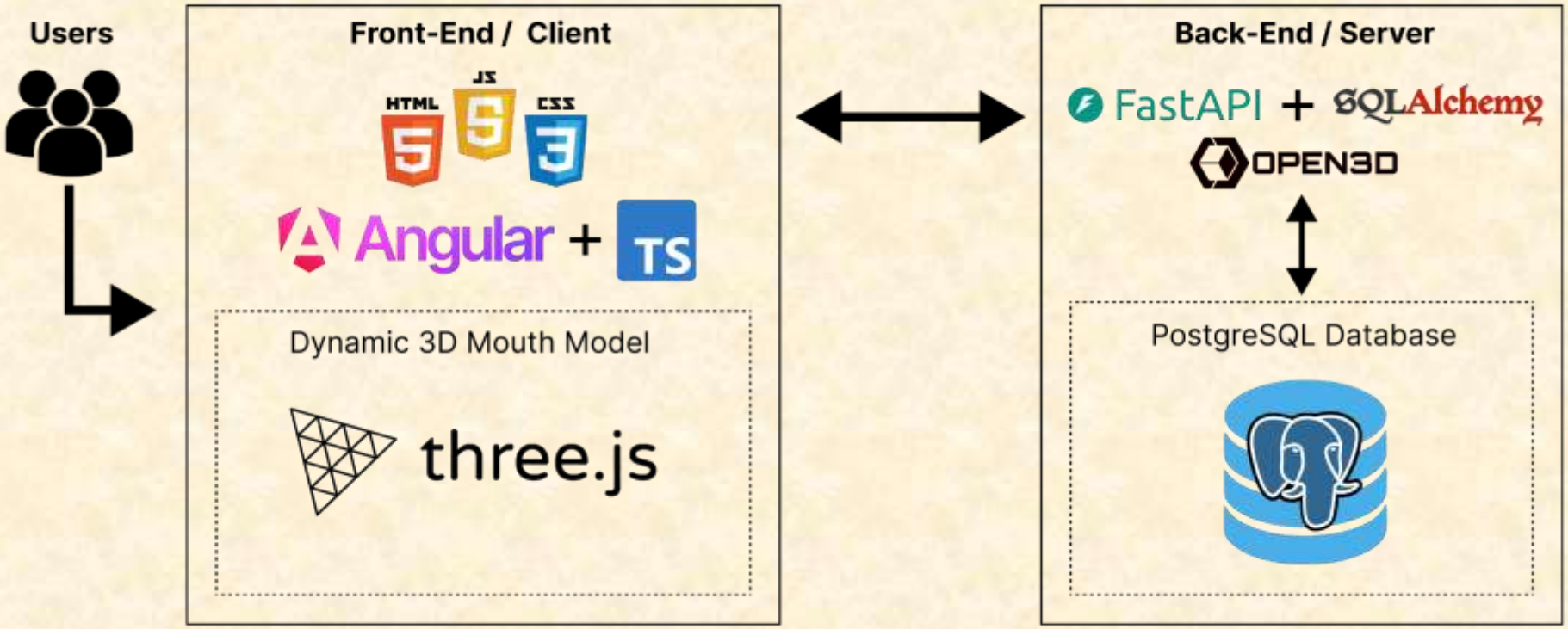
Spring 2026

From Students…
…to Professionals

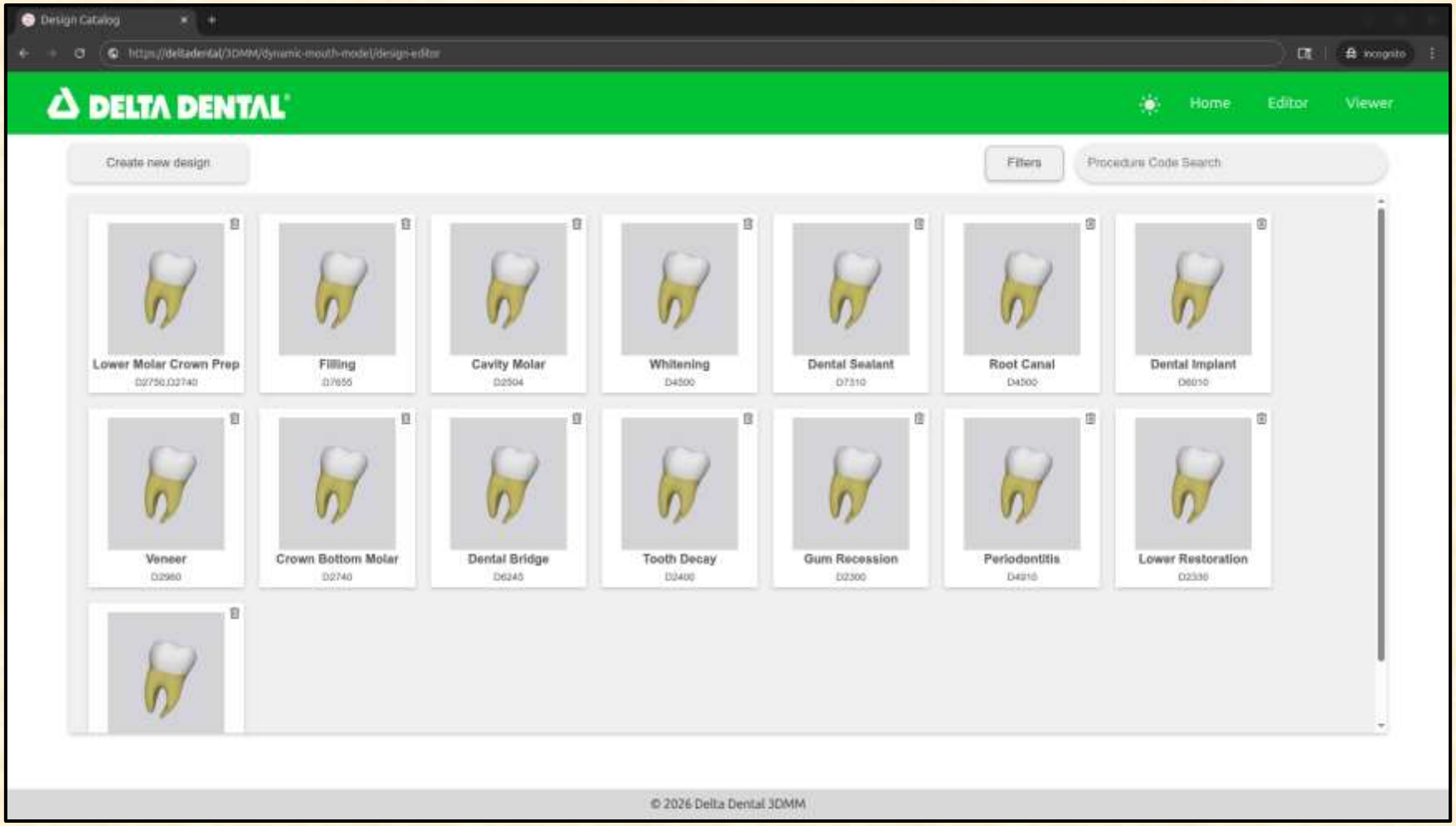
Project Overview

- Software converts patient dental history into 3D visualization.
- UI enables users to create designs to customize the appearance of mouth model.
- Increase the efficiency of Delta Dental's claim processing.

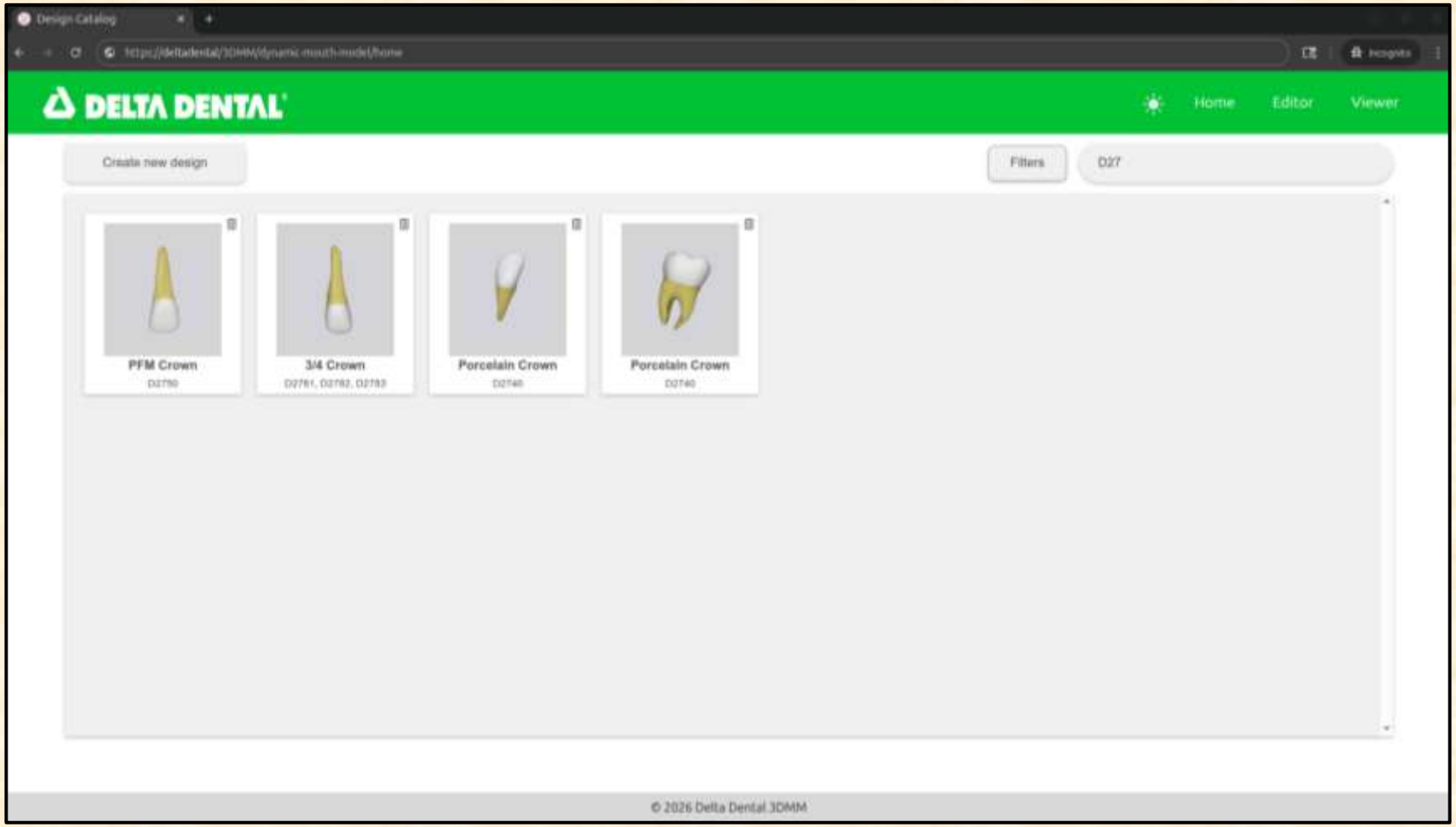
System Architecture



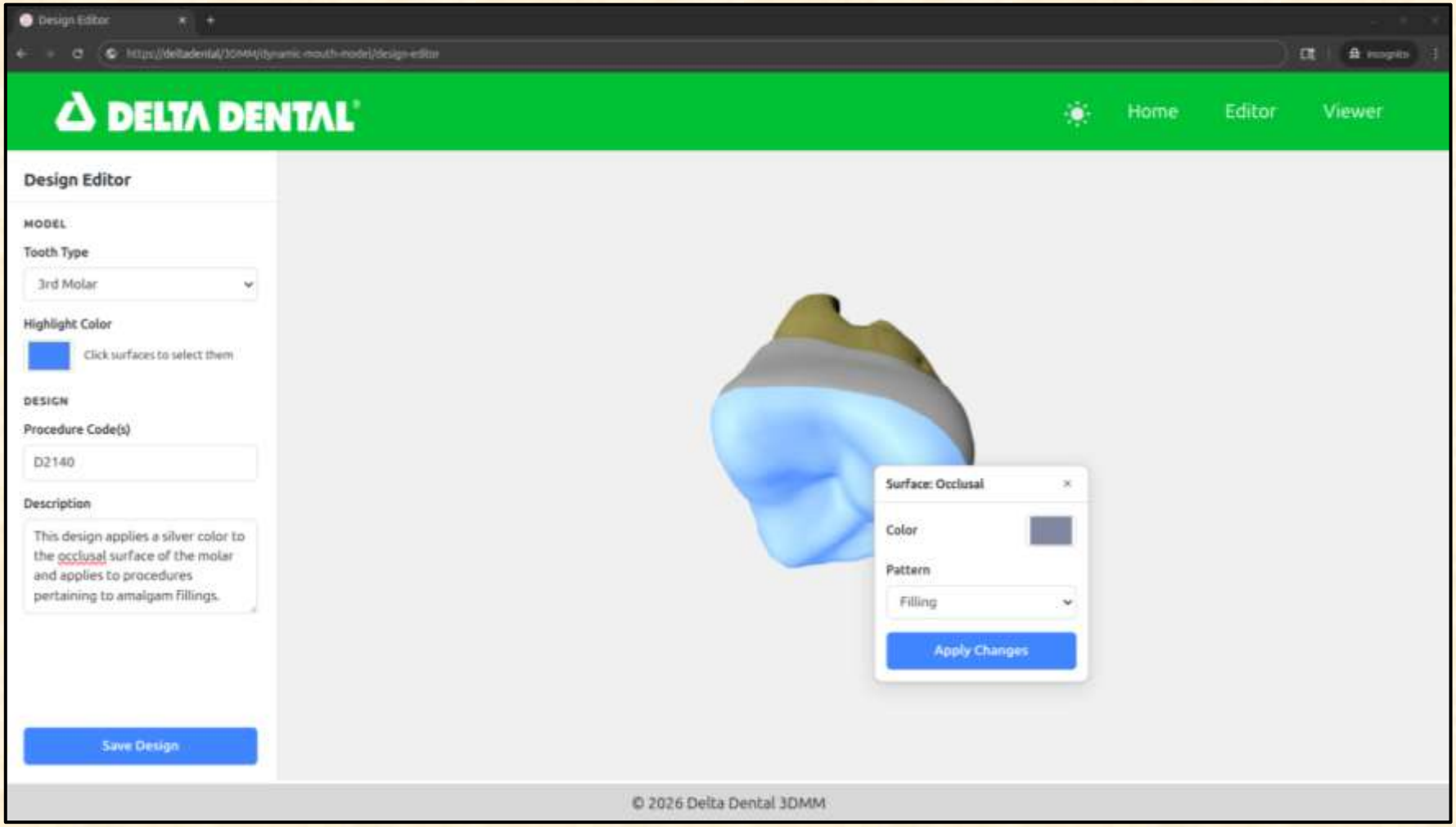
Design Catalog



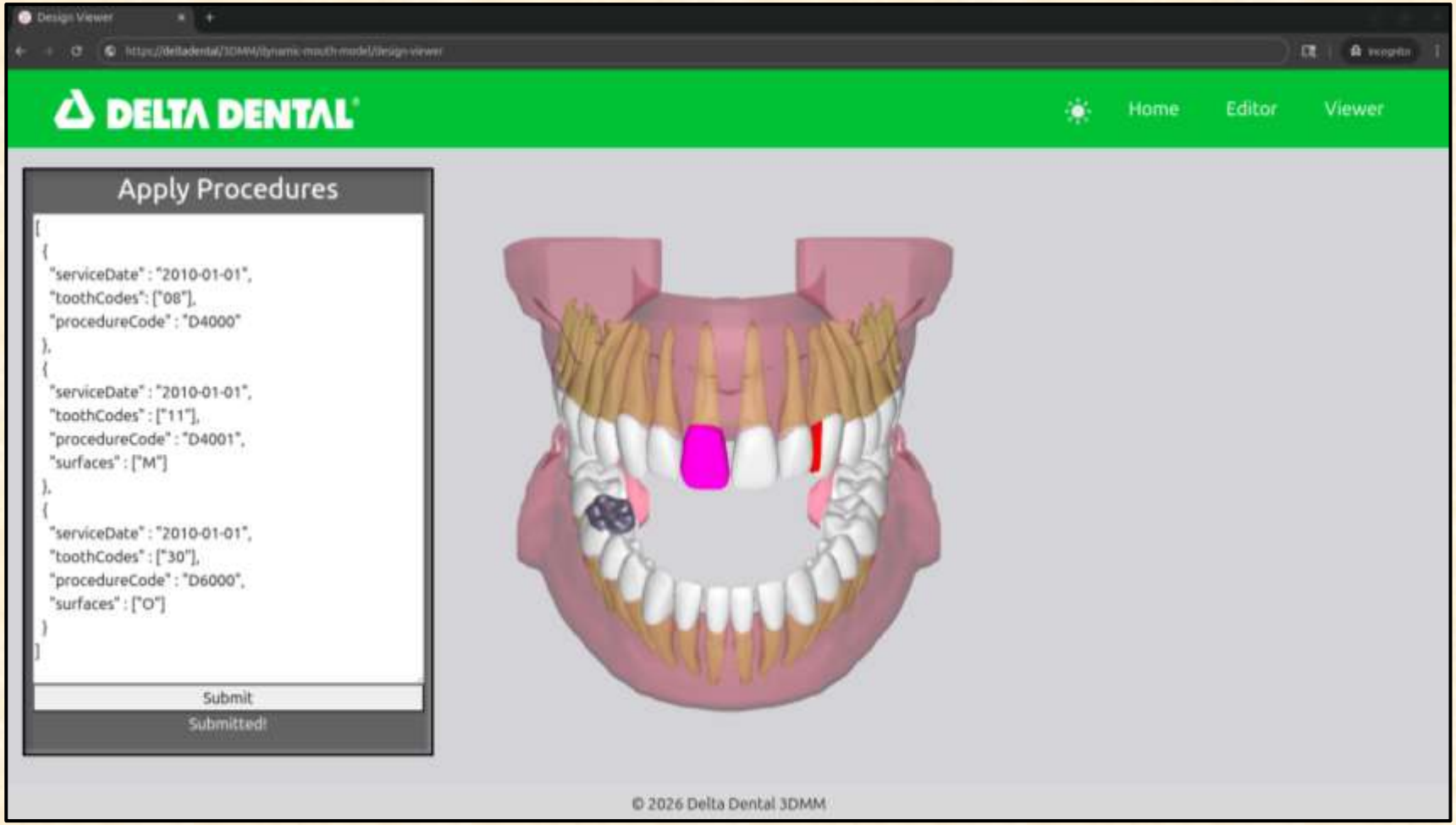
Design Catalog (With Filter)



Design Editor



Mouth Model Viewer



What's left to do?

- Remote Server Implementation
- Surface Subdivision
- Shape Manipulation
- Design Catalog Preview

Questions?

