Universal Electronic Dental Records
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- Consolidates electronic dental records for easy information exchange between clinics
- Reduces amount of busywork for dental staff
- Allows patients control over record distribution
Architecture
Model - View - Controller Architectural Pattern

Database [Model] → stores and manages encrypted patient information

Server [Controller]
→ validates user and user input
→ queries and modifies database
→ updates front-end website

Front-End Website [View]
→ requires authentication
→ displays patient information
→ restricts editing to doctors
Challenges and Risks

- Challenge: gain and maintain trust
- Requires HIPAA compliancy for confidentiality and privacy
- Research privacy concerns of dentists and patients
- Secure login (ie. 2fac authentication)
- Data integrity