Alpha Presentation
Microsoft Excel Data Extractor/Modeler

The Capstone Experience
Team Delta Dental Knowledge Science

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Project Overview

- Intuitive web application
- Adds implied context to Excel data
- Labels data based on user input
- Improve efficiency of Delta Dental employees
- Remove reliance on code developers
- Dynamic, functional for all data models
System Architecture
Upload

[Image of a web page showing a file upload interface for Delta Dental]
View

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<table>
<thead>
<tr>
<th>Spreadsheet Name</th>
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Label
## Browse

![Image of a spreadsheet showing data on dental procedures and rates]

**Procedure**
- Teeth Cleaning
- Teeth Whitening
- Extractions
- Veneers
- Fillings
- Crowns
- Root Canal
- Braces
- Invisalign
- Bonding
- Dentures
- Bridges
- X-Rays
- Sealant
- Wisdom Teeth

**Base Rates**
- Subscriber Rate
- Spouse Rate
- Dependant Rate

**State Multiplier**
- MI_Multiplier
- OH_Multiplier
- IN_Multiplier

**Michigan**
- MI_Subscriber
- MI_Spouse
- MI_Dependant

**Ohio**
- OH_Subscriber
- OH_Spouse
- OH_Dependant

**Indiana**
- IN_Subscriber
- IN_Spouse
- IN_Dependant

**Label**
- Base Rates: L2:O17
- Bonding: A12:J12
- Braces: A19:J19
- Bridges: A15:J15
- Crowns: A6:J6
- Dentures: A13:J13
- Dependant: G2:O17
- Rate: Extractions: A5:J5
- Fillings: A7:J7
- IN_Dependant: J2:J17
- IN_Multiplier: T2:T17
- IN_Spouse: O2:O17
- IN_Subsriber: H2:H17
- Indiana: H1:J17
- Invisalign: A11:J11
- Locations: B1:J1
- MI_Dependant: D2:D17
- MI_Multiplier: R2:R17
- MI_Spouse: C2:C17
- MI_Subscriber: B2:O17
- Michigan: B1:O17
- OH_Dependant: G2:G17
- OH_Multiplier: S2:S17
- OH_Spouse: F2:F17
- OH_Subscriber: E2:E17
- Ohio: E1:G17
Remaining Tasks

- Verification web page (Browse)
  - Error detection
  - Visual display of nested labels
- Minor bug fixes and styling flaws
- Downloaded file format (DSL script)
- Instructions page
- Label Map > Array[Array]
- ExcelJS X-Spreadsheet merge
  - Color visual styling
  - Cell styling
Questions?