

Total Models

Doctor

- Name String
- Age Int
- UID String
- Practice (field of competence) String
- License # String

Lab

- Branch Name String
- Parent Company String
- Practice (relevant medical fields) String
- Certification ??? String
- Address String

Patient

- Name String
- Age Int
- Ethnicity String
- UID String
- Insurance Info String

AppointmentForm

SUBJECTIVE

From "Patient" Object

- Name String
- Age Int
- Ethnicity String

From Patient Person

- Height Double
- Weight Double
 - MDs typically ask in-clinic
- Dietary Habits String
- Current Medication String
- Chief Complaint string

From Doctor Person

- Initial Comments String

OBJECTIVE

From Doctor

- Examination data Woohoo! (1)*

From Lab

- Processed Exam Data Woohoo! (1)*

ASSESSMENT

From Doctor

- Diagnosis String
- Notes String

PLAN

From Doctor

- Treatment String
- Prescriptions* String

Talking Points for Presentation

The example walkthrough

1. Patient creates account by providing “Patient” object
2. Patient starts by providing *subjective* section of “AppointmentForm” object
 - a. AppointmentForm = new (etc)
3. Patient picks practice based off of their symptoms (automation of this has failed before)
4. Doctor has available appointments
 - a. Patient selects from available appointments
 - b. Appointment is confirmed
5. AppointmentForm ‘object’ is sent to Doctor
 - a. Doctor appends notes to Subjective section of AppointmentForm
6. Patient interacts with doctor
 - a. Objective observations performed, lab data performed
 - b. Example: Optometry, visual field sensitivity mapping
 - i. Patient responds to peripheral flashes of light
 - ii. Produces a matrix of boolean values
 - iii. Object from “LabResult” is created, subsection of “AppointmentForm”
 - iv. Optometrist receives this matrix and can deduce visual field sensitivity
 - v. Optometrist records their own conclusions under ‘objective section’
7. Doctor records potential diagnosis under “Assessment” section
8. Doctor records treatment plan under “Plan” section
9. Patient and doctor conclude appointment, patient receives completed “Appointment Form” without the Objective section, but can receive it upon request. Sometimes these contain *thousands* of data points.
10. Patient receives a bill through insurance. Not sure if we want to do that in one week.

Some Selling Points

- Down the line, the only section which will need adaptation for various practices is anything under “OBJECTIVE” section of SOAP form
- Automated schedulers are always nice- if we have time, we can even implement some automatic notification systems or a waitlist system to auto-fill missed appointments
 - Waitlists are usually opt-in and are an addition to a future appointment
 - When a patient fails to meet a pre-check, the waitlist is contacted
- Under Doctor profiles we could include a doctor-provided checklist (CSV string) to serve as a reminder for things they should check