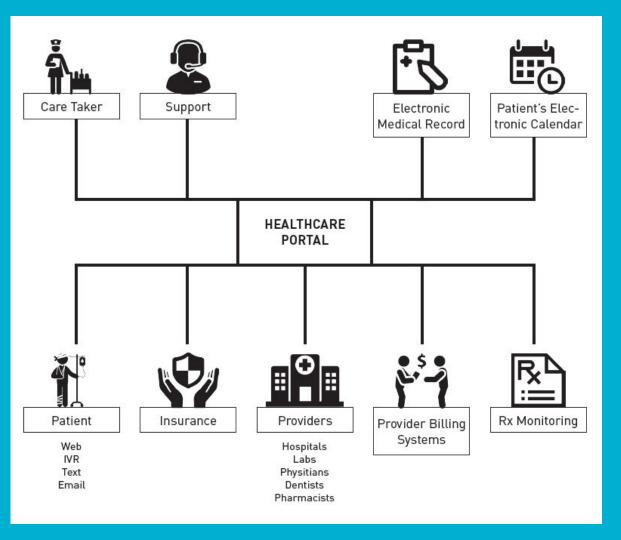
Health-Connect

KLUTZKE | NALLAM | ODIOKO



[Connections]



[Healthcare Portals - Pros]

Internet healthcare portals can improve provider-patient communication.

- Available 24 hours a day
- Streamline common processes:
 - Updating prescriptions
 - Requesting lab results
 - Scheduling appointments
 - Billing
- Overcomes issues with voicemail:
 - Unclear or missing information
 - No record of contact

[Healthcare Portals - Cons]

- Registration for new users can be a big hurdle.
- Provide features rather than user experience
- Patients aren't tech-savvy
- Can feel impersonal
- Liability and regulatory issues
- Access to family members is restricted
- Supporting multiple providers increases complexity

[Requirements]

Primary Mode of Use - For Patients

- Smartphone with internet connection
- Used in a typical US household environment
- User can read and write English at 7th grade level

Alternative Modes

- Desktop website
- Interactive voice response (IVR)

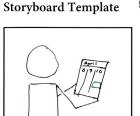
Regulatory & Liability Compliance

- Health Insurance Portability and Accountability Act (HIPAA)
- Section 508 not required but recommended
- Not for emergencies!

[Design Exploration]

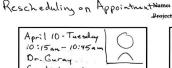
- Smartphone App
 - More patients have phones than have PCs
- Patient Interface
 - Assumed provider interactions behind the scenes
- Scenarios Explored
 - Managing appointments
 - Managing prescriptions

Storyboards - Appointments



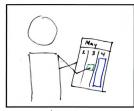
Chris finds the appointment on her Google Colendar. She taps a hyperlink.



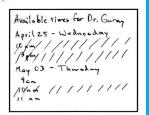




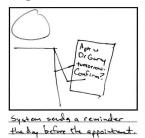
Her phone launches the portal app and displays the appointment. Chris requests to reschedule.

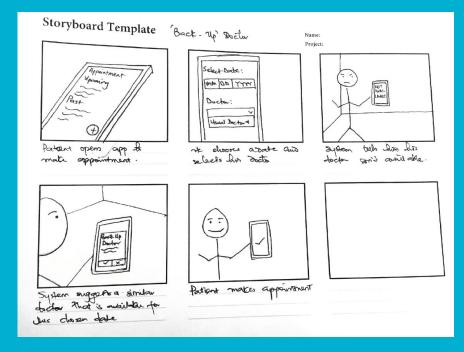


System uphates the appointment on Many & Chris's colouders.



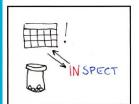
System shows available times.
Times that conflict with calendar
are grayed out.





Storyboards - Prescriptions





Mary's Norco is about to run out. The system confirms she is eligible For more.



Mary receives a message that the slip is coming in the mail.



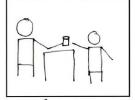
System notifies Dr Wolak.



The slip arrives in the mail. Mary takes it to her pharmacy.



Dr. Wolck confirms the prescription in the system and mails a slip to Mary.



Pharmacy Fills prescription and confirms in the system that they did so.

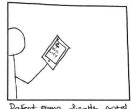
Storyboard Template Checkip Preciphor Southern State Square



Parkent jets prescription from Shorpital (also reploates to (Johns



trito phamacies that have in Avet.



Patient opons health proto app and naugates of



Manmary Patient good punchane Ry



Pathens open secent prescription and deles find prounacis



Checking Prescription Availability

Managing Prescriptions

- This is the system we selected for our design
- Exploring interactions between patient, physician, and pharmacist
- Not resolved by the portals we studied









Makes
Communication
With
Pharmacies
Easier



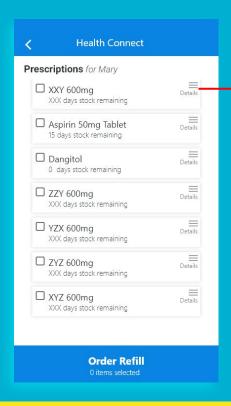
Manage Your Prescriptions



Choose Pickup Location



[Prototype 1 - Key Findings]



'Details' button didn't seem clickable.

Security concern on easy access to other user's profile.



[Interactive Prototype / Demo]



Launch

[Evaluation Results]

- Refined wording on some buttons and messages
- Concerns
 - "Cart" analogy feels wrong for prescriptions
 - Not realistic to estimate when doctor will provide prescription
 - Need some security measure for switching between patients
- Suggestions
 - Display estimated costs based on insurance and other providers
 - Test a task having delay due to insurance authorization
- Expert review is in progress

[Next Steps]

- Carry out more research on regulatory and liability compliance.
- Explore incorporating an Insurance feature.
- More user testing with industry professionals.

[Thank You]

What are your questions?