



HealthHub

<h1> Introduction </h1>



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Backend Developer



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Front-End Developer



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Full-Stack Developer

<p2>Our Purpose</p2>

“Dual-Faceted approach to aid and assist patients and healthcare personnel”

<h2> Platform Requirements </h2>

- Core Requirements:
 - User Roles
 - Medical History
 - File Storage
 - Transaction Log
- Major Requirements:
 - Appointment Scheduling
 - Healthcare Forum
 - Automated Reminders

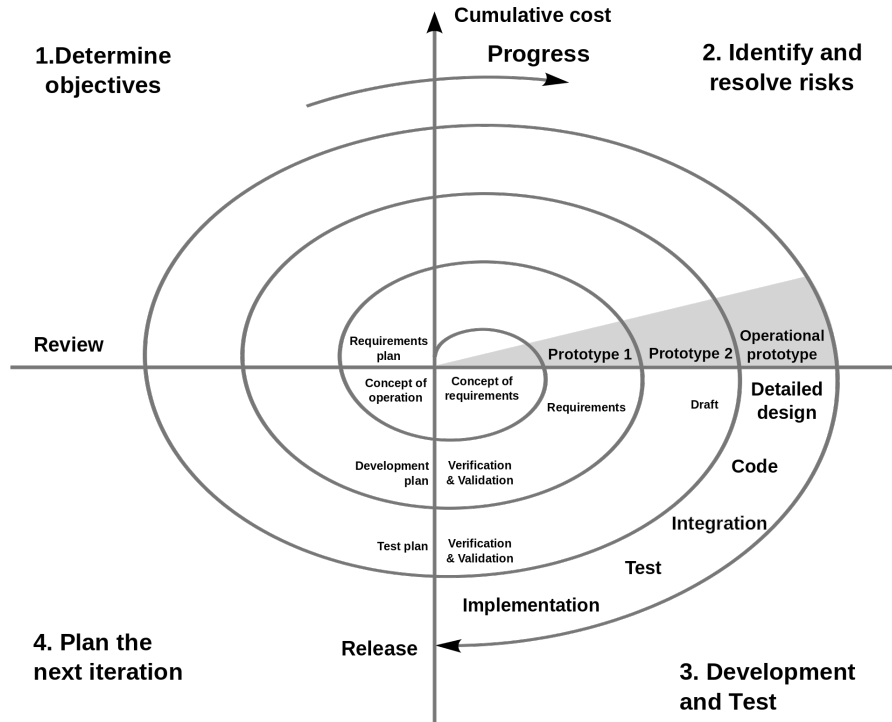


<h2>User Roles</h2>

- **Patients:** have the capacity to book appointments, check prescriptions, view medical history & files and recent checkup information, and interact on the forum.
- **Physicians:** have the capacity to view/schedule appointments, view/upload medical history files and recent checkup information, issue prescriptions, look up patients, interact on the forum, and create new forums.
- **Nurses & Administrators**



<h2>Software Development Methodology</h2>



- **Each Cycle:**

- Consider the win conditions of stakeholders
- Identify + Evaluate alternate approaches
- Identify and resolve risks that stem from selected approach

- **Characteristics:**

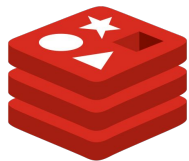
- Size: Medium
- Interactiveness: High
- Requirements: Stable
- Reliability: High
- Security: High
- Portability: Low/Medium
- Cost: Low/Medium

<h2>Tools, Setup & Methodology </h2>

- Python, JavaScript, SQL, HTML/CSS (Grid!)
- Flask
- SQL Alchemy
- WTForms
- Jinja
- Redis
- Celery



SQLAlchemy



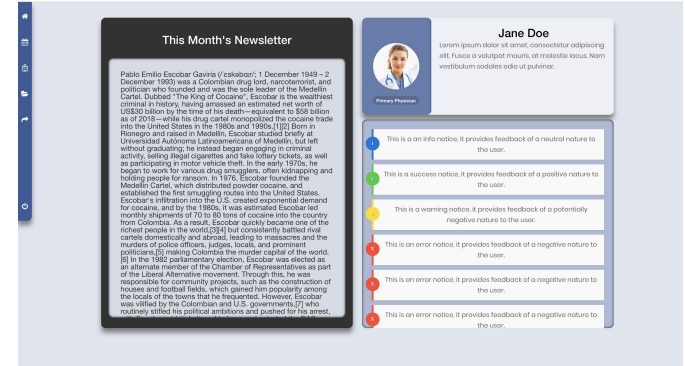
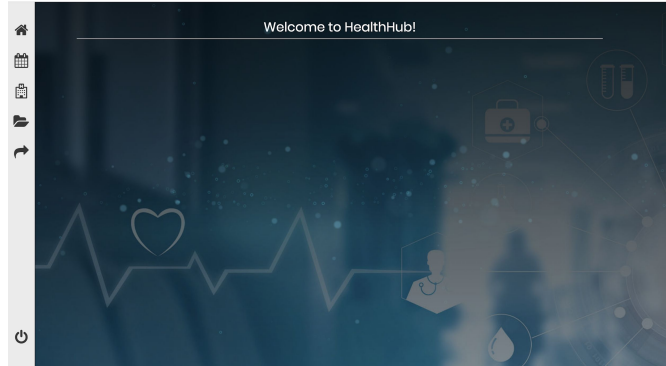
redis

{WTForms}



神社 Jinja

<h2>Front End</h2>



Core Requirement: Medical History

- Physicians search for patients by last name, and then enter the new checkup information.
- Able to see past medical history at a glance to allow for easier recognition of change in a patient's basic checkup
- Patients are able to see their own checkup information, without the long process of requesting the files from the hospital.



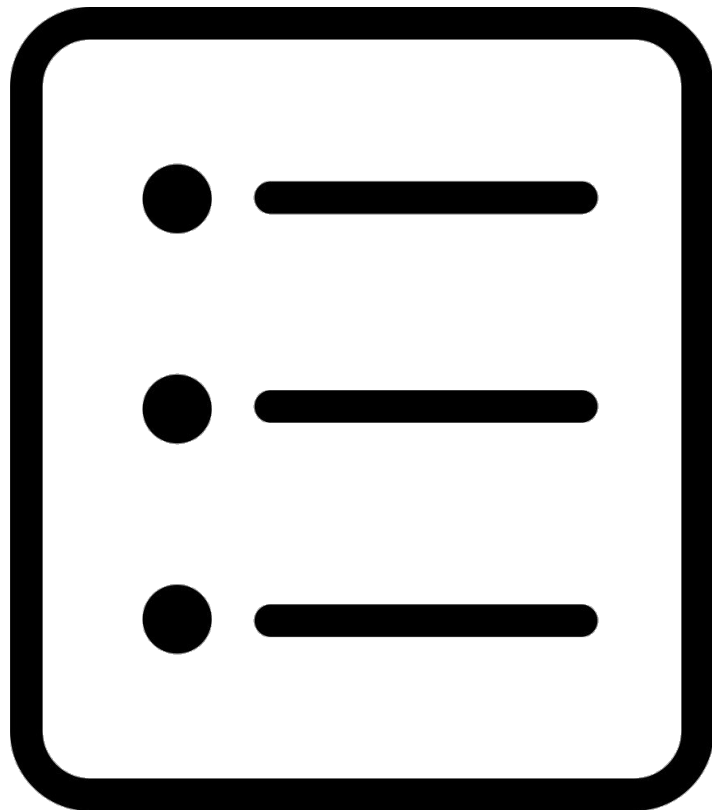
Core Requirements: File Storage

- Medical Staff upload and can view files of patients
- Medical Staff have easy access to lab tests, medical reports etc, for each patient
- Patients are able to view their own medical files, without the difficult bureaucracy typically associated with requesting medical records.
- Patients are not able to upload their own files to maintain site security.



Core Requirements: Transaction Log

- Alembic
- High Portability
- High Security
- Difficult to copy our unique integration
of the EHR system



Major Requirements: Appointment Scheduler

- User can schedule appointments for themselves only.
- Medical staff can add schedules for any patient through the patient search
- Upon creation of a schedule through any user a new row is populated and an eventually notification relating to the appointment is queued



Major Requirements: Social Forum

- Users can write forum posts and comment on said posts
- Users are able to subscribe to sub forums that related to them
- Users can see the top posts of the last day



Major Requirements: Automated Reminders

- In regards to prescription consumption our system offers users the option to receive notifications daily to remind them to take their medications
- When a patient has an upcoming appointment our system pushes an email notification to remind them of their upcoming appointment.

