WAIT TIME MANAGEMENT

Team Progress Report

https://youtu.be/eMzH-IknURo

A mobile system whereby patients and families can see what is occurring in anticipation and during procedures.

Team & Roles



TRACY HU Project Manager

Epic EHR, Population Health, SQL, Python



ALAIN BROWN Developer

Java, C++, Python, Cloud Services



JAMES FRY Developer

Javascript, Node.js, Python, PHP, SQL, React, JQuery



RAJAN CHAUDHARI Developer

Python, SQL/Hive/Pig, Data Science/Stat/ML

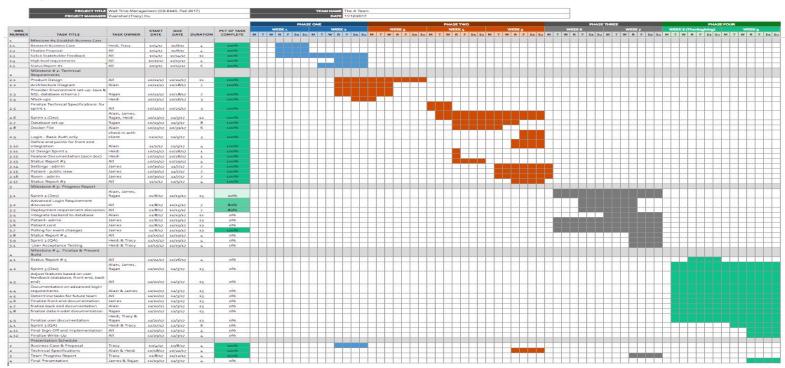


HEIDI BRAUNSTEIN Developer/QA

HCI, Java, Python, Frontend - Angular, Backend - Java, SQL, Data Science, ML

Plan of Action

Image from: Wait Time Management Project Gantt Chart



Phase I Details

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
1	Milestone #1: Establish Business Case					
1.1	Research Business Case	Heidi, Tracy	10/4/17	10/8/17	4	100%
1.2	Finalize Proposal	All	10/4/17	10/8/17	4	100%
1.3	Solicit Stakeholder Feedback	All	10/4/17	10/14/17	10	100%
1.4	High level requirements	All	10/11/17	10/15/17	4	100%
1.5	Status Report #1	All	10/9/17	10/15/17	6	100%
	Presentation Schedule					
1	Business Case & Proposal	Tracy	10/4/17	10/8/17	4	100%
2	Technical Specifications	Alain & Heidi	10/18/17	10/22/17	4	100%
3	Team Progress Report	Tracy	11/8/17	11/12/17	4	100%
4	Final Presentation	James & Rajan	11/29/17	12/3/17	4	0%

Phase II (Technical Requirements)

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
2	Milestone # 2: Technical Requirements					
2.1	Product Design	All	10/11/17	10/22/17	11	100%
2.2	Architecture Diagram	Alain	10/11/17	10/18/17	7	100%
	Provider Environment set-up: Java & SQL					
2.3	database schema)	Rajan	10/11/17	10/18/17	7	100%
2.4	Mock-ups	Heidi	10/13/17	10/16/17	3	100%
	Finalize Technical Specifications for sprint					
2.5	1	All	10/22/17	10/25/17	3	100%

Phase II (Sprint 1)

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
		Alain, James,				
2.6	Sprint 1 (Dev)	Rajan, Heidi	10/23/17	11/5/17	12	100%
2.7	Database set up	Rajan	10/25/17	11/3/17	8	100%
2.8	Docker File	Alain	10/25/17	10/31/17	6	100%
2.9	Login - Basic Auth only	Alain	11/2/17	11/5/17	3	100%
	Define end points for front end					
2.10	integration	Alain	11/1/17	11/5/17	4	100%
2.11	UI Design Sprint 1	Heidi	10/25/17	10/26/17	1	100%
2.12	Feature Documentation (ascii doc)	Heidi	10/25/17	10/26/17	1	100%
2.13	Status Report #2	All	10/25/17	10/29/17	4	100%
2.14	Settings - admin	James	10/30/17	11/7/17	7	100%
2.15	Patient - public view	James	10/30/17	11/7/17	7	100%
2.16	Room - admin	James	10/30/17	11/7/17	7	100%
2.17	Status Report #3	All	11/1/17	11/5/17	4	100%

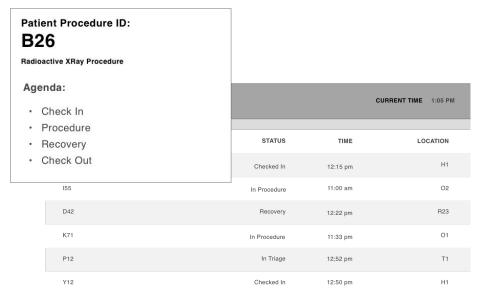
Phase III Details

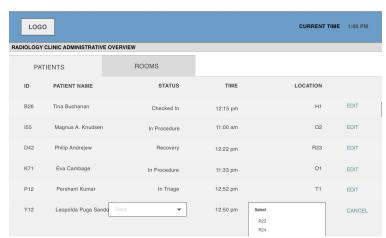
WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
3	Milestone # 3: Progress Report					
3.1	Sprint 2 (Dev)	Alain, James, Rajan	11/6/17	11/19/17	13	20%
3.2	Advanced Login Requirement discussion	All	11/8/17	11/15/17	7	80%
3.3	Deployment requirement discussion	All	11/8/17	11/15/17	7	80%
3.4	Integrate backend to database	Alain	11/8/17	11/19/17	11	0%
3.5	Patient- admin	James	11/6/17	11/19/17	13	0%
3.6	Patient card	James	11/6/17	11/19/17	13	0%
3.7	Polling for event changes	James	11/6/17	11/19/17	13	100%
3.8	Status Report # 4	All	11/15/17	11/19/17	4	0%
3.9	Sprint 2 (QA)	Heidi & Tracy	11/15/17	11/19/17	4	0%
3.10	User Acceptance Testing	Heidi & Tracy	11/15/17	11/19/17	4	0%

Phase IV Details

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
4	Milestone # 4: Finalize & Present Build					
4.1	Status Report # 5	All	11/22/17	11/26/17	4	0%
4.2	Sprint ₃ (Dev)	Alain, James, Rajan	11/20/17	12/3/17	13	o%
4-3	Adjust features based on user feedback (database, front end, back end)	Alain, James, Rajan	11/20/17	12/3/17	13	0%
4.4	Documentation on advanced login requirements	Alain & James	11/20/17	12/3/17	13	0%
4.5	Determine tasks for future team	All	11/20/17	12/3/17	13	0%
4.6	Finalize front end documentation	James	11/20/17	12/3/17	13	0%
4.7	finalize back end documentation	Alain	11/20/17	12/3/17	13	o%
4.8	finalize data model documentation	Rajan	11/20/17	12/3/17	13	0%
4.9	Finalize user documentation	Heidi, Tracy & Rajan	11/20/17	12/3/17	13	o%
4.10	Sprint 3 (QA)	Heidi & Tracy	11/27/17	12/3/17	6	о%
4.11	Final Sign-Off and Implementation	All	11/29/17	12/3/17	4	о%
4.12	Finalize Write-Up	All	11/29/17	12/3/17	4	0%

Application Overview v1





LOGO			CURRENT TIME	1:05 PM
RADIOLOGY CLINIC ADMINISTRATIVE	OVERVIEW			
PATIENTS	ROOMS			
ROOM	STATUS	TIME	LOCATION	
H1	Ready	12:15 pm	H1	EDIT
T1	Full	11:00 am	O2	EDIT
01	Cleaning	12:22 pm	R23	EDIT
02	Turned Over	11:33 pm	01	EDIT
О3	Occupied	12;52 pm	T1	EDIT
R10	Select	12:50 pm Select		CANCEL

Visual Mockups - Patient Card v2

Patient Procedure ID:

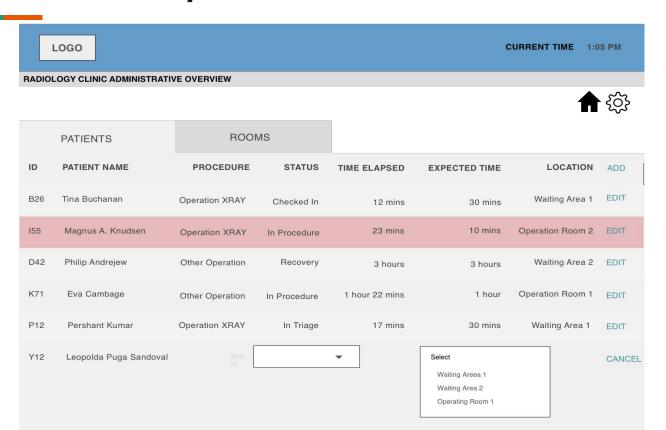
B26

Radioactive XRay Procedure

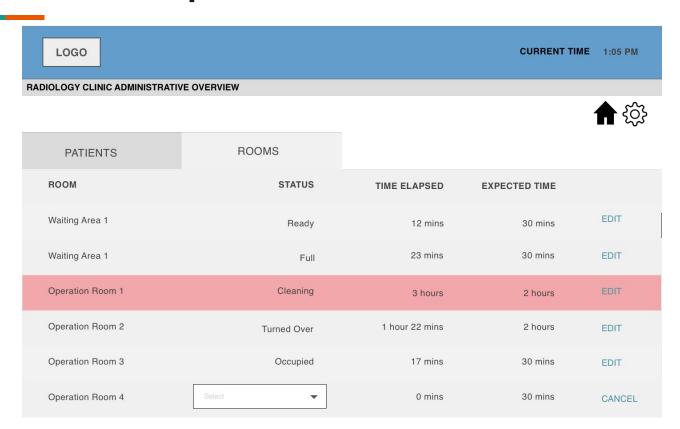
Visual Mockups - Public Overview v2

LOGO ADIOLOGY CLINIC PROCEDURE STATUS			CURRENT TIME 1:05 PM
Patient ID	STATUS	TIME ELAPSED	LOCATION
B26	Checked In	12 mins	Waiting Area
155	In Procedure	23 mins	Operation Room
D42	Recovery	3 hours	Waiting Area
K71	In Procedure	1 hour 22 mins	Operation Room
P12	In Triage	17 mins	Waiting Area

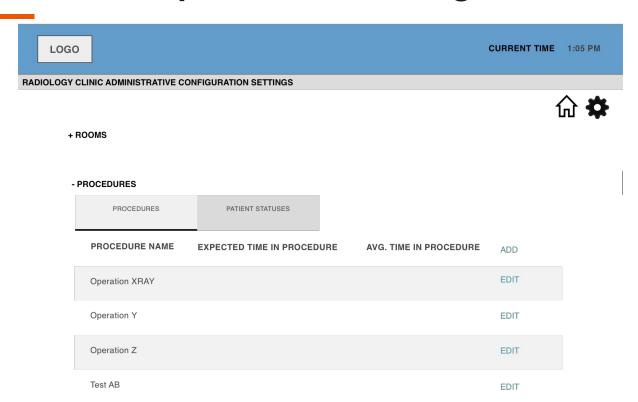
Visual Mockups - Admin Patient Overview v2



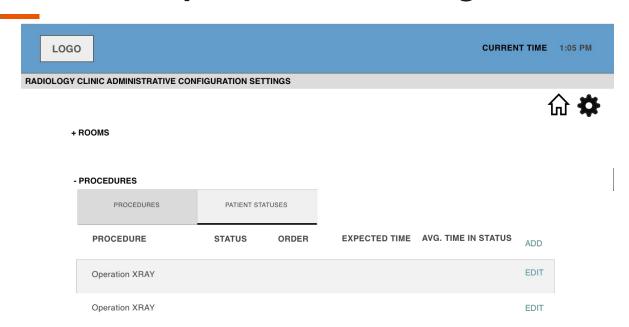
Visual Mockups - Admin Room Overview v2



Visual Mockups - Admin Configuration Settings



Visual Mockups - Admin Configuration Settings



Build in Progress

Patient Statuses

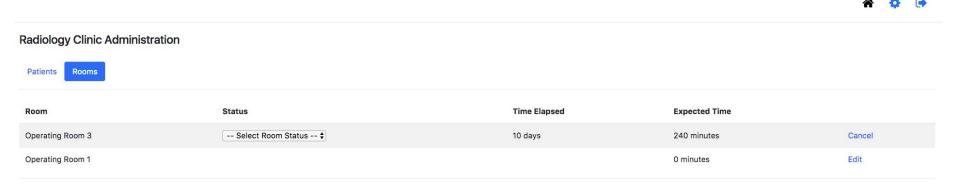
Current Time: 6:57 pm

Patient ID	Status	Time Elapsed	Location
P12	In Procedure	10 days	Т7
B32	In Procedure	10 days	H1
D42	In Procedure	10 days	R32
K71	In Triage	10 days	OR3
155	Recover	9 days	ICU

http://wtm.banditdevelopment.com/

Build in Progress

Wait Time Management



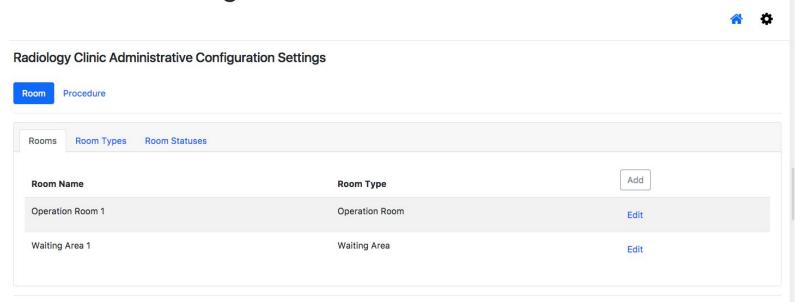
Login: admin

Password: adminpass

http://wtm.banditdevelopment.com/admin/

Build in Progress

Wait Time Management



http://wtm.banditdevelopment.com/admin/settings/room

Docker Deployment

README.md

Wait Time Management

Delivery to Emory (These instructions to be shared via email)

Download public repo

Download: https://github.com/cs6440-the-a-team/Wait-Time-Management/archive/master.zip

or check out with git

git clone https://github.com/cs6440-the-a-team/Wait-Time-Management.git

Install Docker

Instructions for your operating system can be found here: https://docs.docker.com/engine/installation/

Build and run docker containers

This will launch 3 docker containers, one for the database, one for the frontend, and one for the backend. The front end will serve on port 80 for http and 443 for https SSL. You may test succesful deployment by navigating in your web browser to the hostname where this has been installed. If testing from the same server simply open http://localhost in your browser.

docker-compose up

Further Research



Image sourced from: https://www.whmcs.com/web-hosting/