DELIVERABLE 5: FINAL SUBMISSION

SafeSEX Screen – Final Submission
Term: Fall 2019
Cranky Euler
Project #28

Section I: Team Details

Title	name	email
Project Manager	David Awad	me@davidawad.com
Software Developer	Federico Ciner	federico.ciner@gmail.com
Software Developer	Wassim Fourati	wassim9429@gmail.com
Quality Assurance	Anne Chepkeitany	rerimoianne.4@gmail.com

Mentor: Preeti Maan

Description :

The objective is to build a web-based tool that recommends screening for Chlamydia and Gonorrhea in sexually active women age 24 years and younger and in older women who are at increased risk for infection.

Section II – Application

Github Repository: All of your code must be in this repository.
Final Git Commit: 9ec6408565f1ca6da5c5a1053445219ef14c0384
Github Link: https://github.gatech.edu/gt-cs6440-hit-fall2019/SafeSEX-Screen-2
Branch: **master**

Application Details

App Name: ss2frontend
App URL: https://apps.hdap.gatech.edu/ss2frontend/

App Description:

A web-based tool that recommends screening for Chlamydia and Gonorrhea in sexually active women age 24 years and younger and in older women who are at increased risk for infection. It's built using python and javascript.

Section III – Project Presentation

Link to Presentation Slides	https://docs.google.com/presentation/d/1Jcjckj_JmdXqe99j4oEBwo1rE7r-TeexNLbD6uLuGQA/edit?usp=sharing
Link to Presentation Video	https://youtu.be/No06yqfX68Q

Section IV – Project Documentation

These Documents are all duplicated in GitHub as well in https://github.gatech.edu/gt-cs6440-hit-fall2019/SafeSEX-Screen-2/tree/master/docs

Resource	**Google Drive**
Final Deliverable Directory	https://drive.google.com/drive/folders/1Z1jcKvp6Tgw6KFNKj3O0xWGLfvmEAONJ?usp=sharing
Final Gantt Chart	https://docs.google.com/spreadsheets/d/1Nbs63qbo9YmwBoKJirpedcgeiBFLVl38-G3oO33pcU0/edit?usp=sharing
Application Manual	https://docs.google.com/document/d/1hwUzN6PHRc_PMDJfZS0cWwoja6WFq00dpFj3luZajSc/edit
Special Instruction	https://docs.google.com/document/d/1Wv0RejPegXY2-AEsgn0W4mxOzpI0kZp1TmLj70qj33M/edit
Research Directory	https://drive.google.com/drive/folders/1AcdKOvU5Xlt8wm-2pMDy2q4gyXmgO

	NlA?usp=sharing
Documentation Directory	https://drive.google.com/drive/folders/1hL9AuVMivrK7hA2BICYS2X_9Fw0F59yR?usp=sharing
Project Plan	https://drive.google.com/file/d/1UKZKm58COBYemi7VxGKz3GAOvCG2Iqaw/view?usp=sharing
Use Case Model	https://drive.google.com/file/d/11uzbem5ia32_tZz_nhbfSmYU8V0DPyt-/view?usp=sharing
Design Document	https://drive.google.com/file/d/1ts6mqawVkfIgUlr0yai1czGrSppOnQKg/view?usp=sharing
Test Plan	https://drive.google.com/file/d/1yirpPGX6LsFMKHZfdl4giLrKvi855Iw-/view?usp=sharing

SafeSEX Screen - # 28

Team Cranky Euler

Georgia Institute of Technology, Fall 2019

Introduction

David Awad

Georgia Tech
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Project Goals & Requirements

The objective is to build a web-based tool that recommends screening for Chlamydia and Gonorrhea in sexually active women age 24 years and younger and in older women who are at increased risk for infection.

Team Roles & Contributions

Title	name	email
Project Manager	David Awad	me@davidawad.com
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Software Developer	Wassim Fourati	wassim9429@gmail.com
Quality Assurance	Anne Chepkeitany	rerimoianne.4@gmail.com

Research

Wassim Fourati

Georgia Tech
CREATING THE NEXT

Demo & Frontend Code

Anne Chepkeitany

Georgia Tech
CREATING THE NEXT

Design Diagrams

Anne Chepkeitany

Let’s go visit HDAP!

Anne Chepkeitany

Frontend Code

Anne Chepkeitany

Georgia Tech
CREATING THE NEXT

Frontend Code

- This is the first point.
- Here’s a second point. Let’s make it a longer one and see how it wraps
  - Example of a sub point.
  - Another sub point
- Look, I’m a third point.
  - Subpoint example
    - Sub-sub point example the first
    - And the second

Backend Code & Infrastructure

Federico "Fed" Ciner

Georgia Tech
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Backend Service Overview

- RESTful service developed using Flask, a web “microframework” written in Python
  - Served using the HTTP WSGI Gunicorn
  - NGINX used as a reverse proxy to route HTTP traffic
- SQLite used as the backend database to store user, patient and screening recommendation details
  - Deployed as part of Docker container on HDAP via Drone

REST API Resources

- User (GET/POST/DELETE)
  - Internal to the application
  - Used by clinicians for login and creating screening recommendations
- Patient (GET/POST/DELETE)
  - Stores individual patient personal details
  - Sourced from FHIR server using unique ID
- Recommendation (GET/POST)
  - Contains screening details and patient sexual history
  - One patient can have zero, one or more recommendations
  - Point-in-time snapshot based on patient details on a given date

Closing Remarks

David Awad

Georgia Tech
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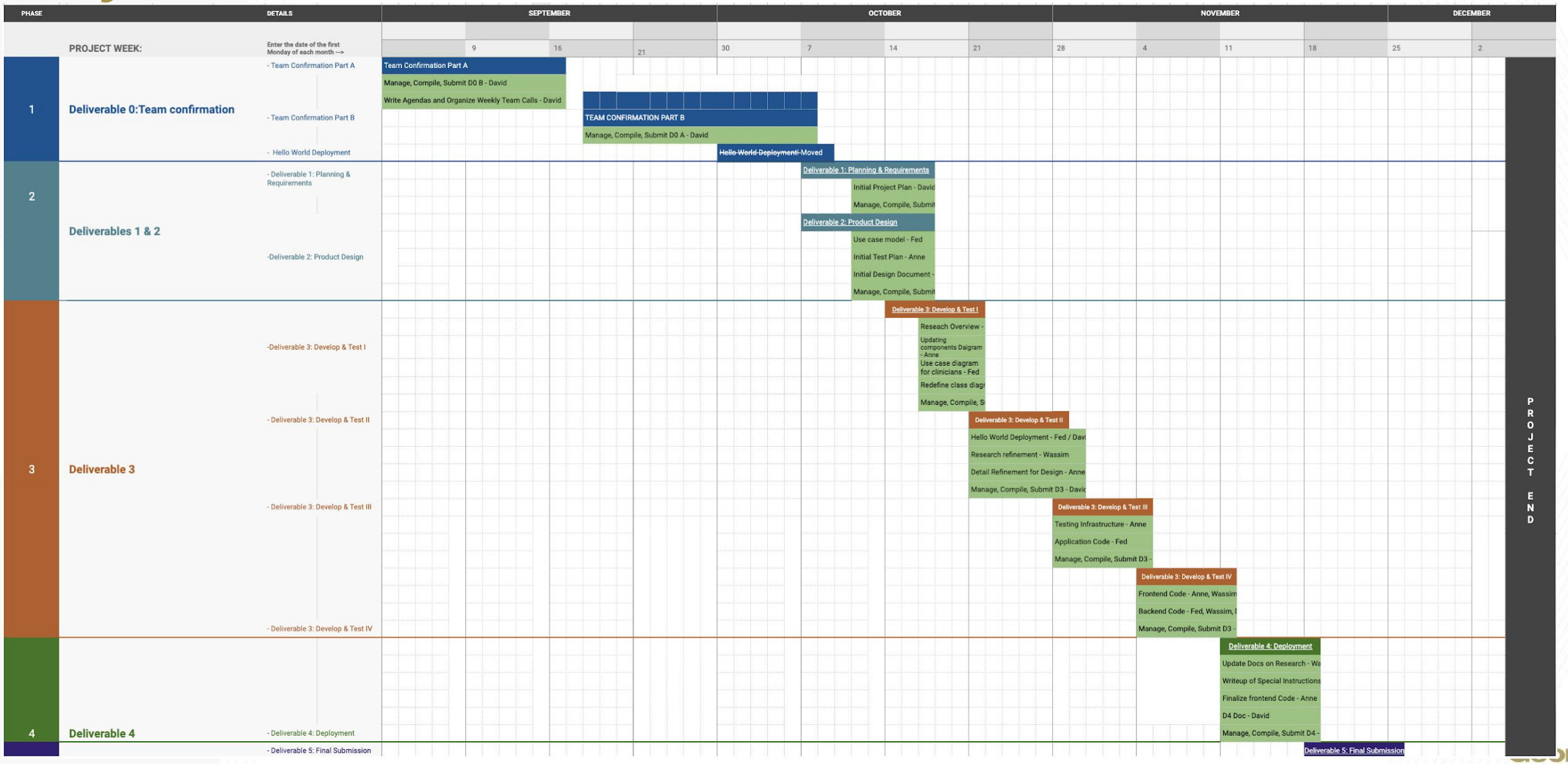
Project Status and Gantt Chart



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Future Plans and Opportunities

- Testing this out with some doctors in the Meridian Health Network.
- Improving the backend infrastructure with database reduncancy.
- Writing up a small paper about the application to share with the GT community.

Thank You!

This was a fantastic Learning Experience.

federico ciner

Anne Chepkeitany

David Awad

Wassim Fourati

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