SW Engineering CSC 648/848

Team 2

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SFSU | CSC648/848

Milestone 2 Documentation

**Team**

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# Data Definitions V2

# Functional Requirements V2

# UI Mockup and Storyboards

# High-Level Architecture & Database Organization

# High-Level UML Diagrams

# Key Risks

The following is a risk assessment of the development team in its current status:

1. **Skills**

Our team has a diverse set of skills that cover most of the requirements to fully develop this project. However, it seems that the skills are largely segmented between individuals and the minimal overlap may result in issues with workload balancing in the future as development progresses and becomes more intensive.

1. **Schedule**

As a fully remote team, our scheduling cannot revolve around on-campus time for large development meetings or sessions. Coupling this with the extant work schedules of our teammates, the limited times available to have full-team meetings forces the team to rely more heavily on asynchronous communications, which is not preferable as we enter later stages of development and time-sensitive milestones. This presents a significant risk currently, but one our team is seeking to remedy before it becomes more disruptive.

1. **Technical**

The current technical challenges revolve around adapting open-source AI tools to operate efficiently without our current frameworks and software stack. The most challenging aspects for development of the final product involve the optional but highly-desired functional requirements that facilitate faster assessment of patient-uploaded videos. The AI component presents a large computational requirement that may directly affect the end-user experience if not implemented correctly. This is certainly the largest technical risk currently facing the team.

1. **Teamwork**

The current environment which does not allow for direct interpersonal collaboration presents a significant risk to the team. This is exacerbated by the fact that the entire team is made up of people that have never worked together before, nor met in person. Bridging this gap, our team attempts to utilize Zoom, Slack, and GitHub to its full potential to maintain open lines of communication and meet all objectives in a timely and organized fashion. However, this is not to say that risks are not present when looking forward into further development

# Project Management

Current development surrounding milestone 2 has relied on initiative undertaken by frontend and backend team leads to delegate tasks that fall within their scope to team members and flesh out granular details. As smaller deadlines and modules are completed, requirements and technical details are compared between the two teams for incongruency and issues are rectified during team meetings to reassess the team’s direction and path moving forward so that the team is moving towards the milestone goals as a cohesive unit.

Looking forward to future tasks and development, adhering to a flexible and adaptive strategy that is inherent with agile software engineering will allow for our team to pivot as necessary to meet changing demands from our client and address technical hurdles as they present themselves.