

**Project Proposal**

**For:** University of Texas at Dallas

**Date:** 2/24/2020

**Team Members:** Jace Baker, Gabriel Balanov, Danielle Faris, Lirit Fuksman, Evelyn Wong

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**Summary**

This document details the Project Proposal between the client (The University of Texas at Dallas) and the vendor (our team). All the names mentioned in this document shall refer to either the client or the vendor as referred to in this section. The purpose of this document is to present the Project Proposal which outlines the team’s roles, tasks, dependencies, and deliverables at a high level for deployment of services to support a planned launch by The University of Texas at Dallas.

The team is not obligated to provide services not described in this proposal unless an order for the service has been placed by the customer under a signed governing agreement in place between UTD and the team and accepted by the team. The team’s performance of the Services described herewith is subject to the assumptions, exclusions and other conditions identified in this document. In the event of a conflict between the terms of the Agreement and this proposal, the terms of this proposal shall prevail with respect to the subject matter contained herein.

**Introduction**

Our team will work with The University of Texas at Dallas to create a mobile application that receives EKG data, ran through a supplied ML algorithm…. The mobile accessible application will have the below functionalities:

* Login page - UTD credentials
* Create profile for student: Student Demographics, Insurance, Medical History
* Scheduling Page: students to schedule virtual visit, reason for visit
* Health Record Page: student’s medical record
* Display student’s nearby pharmacies
* Billing Records Page: displays student’s past and current billing records
* Credit card processing system to allow students to pay bills online
* Credit card payment information: card on file, update card, delete card.
* Prescription Management Page: connects to student’s pharmacy management system where they can search for prescriptions and their costs, view or transfer a prescription, manage automatic refills, or easily schedule a prescription pickup
* Logout page.

**Discussion**

This proposal defines the work to be performed and delivered to The University of Texas at Dallas for review and acceptance.

**Resources**

* Our main resources are the five team members and professor Lakshman Tamil who serves both as the sponsor for the project and the faculty supervisor. As a head of UTD Quality of Life Technology Laboratory, professor Tamil has provided his lab space as a weekly meeting room. His doctoral student Vignesh Kalidas whose research parallels the subject of the project is another point of contact and is valuable for providing EKG data samples and answering any technical questions. Since the existing AI model is located in the cloud, which is accessible from personal laptops, it is expected that team members will work from their personal devices and no special access is needed.
* Once EKG output from the model is obtained, it will be visualized using one of the software packages from PhysioNet website (specify which one????)
* The web pages will be hosted using https://autoecg.utdallas.edu. Since the domain already exists and is used by the lab, there is no need to request a new server.

**Key Roles**

Lirit Fuksman and Jace Baker will be working on transmitting the pre-processing the EKG data and feeding it to the AI model in the cloud. They will also be responsible for EKG signal visualization on the web page. Danielle Faris will be responsible for creating the database for storing recordings of EKG signals as well as will be working together with Lirit and Jace to send the output from the model back to the app. Danielle will also be responsible for creating two user roles with different website access privileges. Gabriel Balanov and Evelyn Wong will be responsible for the frontend of the project by creating an app which will transmit the EKG signal to the backend code as well as display notifications for the user.

Lirit Fuksman is the point of contact with the mentor as well as meeting organizer and meeting minutes taker.

**Communication Plan**

Group members communicate via GroupMe chat because it allows for quick exchange of messages as well as file sharing if necessary. Moreover, Github repository was created for source control where each member can upload files and have access to the work of other team members. The interactions with sponsor (who is also the supervisor) happen via email and the weekly reports are verbal. The meetings with the sponsor occur every week on Mondays at 4:30pm while the team meetings are remote on Saturday evenings.

**Risk Analysis**

Since our team has multiple people working both on backend and frontend sides, there are no anticipated delays in case of one of the team members getting sick or not being able to work for some time due to any reason. Thus, the schedule of deliverables should not be affected due to sickness. Moreover, since all the equipment needed is already owned by the lab, there are no delays with respect to shipment of any parts needed for the project. However, because visualization involves utilization of packages with little documentation and with which neither the supervisor nor his students have experience, there might be delays in not being able to figure out the visualization in time for the deliverable. In that case, the deadline could be extended as one of the backend team members can continue to work on visualization while the other team member can move forward with the next piece of the deliverable. Since the visualization is not tied to the app notification part of the project, issues with visualization will not delay the other part of the project. Moreover, since visualization is not the top priority, in a worst-case scenario the final implementation can be left to future developers.

**Timeline**

**Phase 1:**

The team will notify UTD upon completion of the services by providing

**Phase 2:**

**Phase 3:**

**Cost**

There are no anticipated costs for the project as everything can be done on personal laptops and the spirometer device, the server and the test phone are already owned by the lab.

**Acceptance Criteria or Evaluation & Performance Metrics?**

The team will notify UTD upon completion of the services by providing the notice of completion. UTD will have (15) days from the notice day to notify the team if any requirements are not included in the Statement of Work; such services shall be deemed accepted by the earliest of:

1. The passage of ten (15) days from the date of notice of the completion with no notice of non-conformance from the client, UTD.
2. UTD providing a notification of having reviewed and certified their acceptance of the Services and Deliverables.
3. Client’s use of any part of each Service or any result (or deliverable) of each Service, whether or not any revenue is generated by the Client, would constitute acceptance within (15) days.

**Agreement**

This Project Proposal the terms and conditions of the Agreement constitutes the entire agreement between UTD and the team and supersedes all prior oral or written negotiations and agreements regarding the subject matter herein. Any modification or addition to this Project Proposal shall be in writing and signed by authorized representatives of both parties.

IN WITNESS WHEREOF, the parties hereto have caused this Project Proposal to be executed by their duly authorized representatives.

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| --- | --- |
| UNIVERSITY OF TEXAS AT DALLAS  (“Customer”) | UTDLive |
| Signature 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Signature 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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**Contact Information**

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Short bio?

**Sources**