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## RAJ VANSIA

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### **Required Skills:**

– No Preference, Web Application, Responsive Design, API, UI Design, Databases

### **Preferred Team Communications:**

Conference Call, Slack, to be discussed

### **Data Sources:**

FHIR resources, GT synthetic data

### **Other Items:**

Project has time zone flexibility. Mentors and students will determine a good time for virtual meeting

### **Team Info:**

Needs a Developer, DBA, QA, Project Manager. Allows one team of 4-6 members.

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## REMOTE PRENATAL VITAL SIGN MONITORING

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The tracking of vital signs during prenatal care is important to catch conditions such as preeclampsia. Preeclampsia is elevated blood pressure during pregnancy and can be fatal to both the mother and fetus. A growing number of patients want to be more involved in their health. With emerging technologies such as remote monitoring of vital signs, patients now have the ability to track their vital signs at home and not have to go to the clinic. For this project the team will create an app that allows prenatal patients to enter in their vital signs. This will allow the patient to track their vital signs history. The app should also show basic demographic information and medications they are taking. Additionally, a dashboard view for the clinician should be able to pull in the patient entered data and fire any alerts for preeclampsia based on their vital signs.

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### PROJECT OBJECTIVES

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The team should create both a patient facing and clinician facing app for prenatal vital sign tracking. The app should include a graphical representation to easily visualize the history. The clinician facing app should be a dashboard view of the patients and it should also include an alerting mechanism to flag patients who might be at risk of preeclampsia or other prenatal conditions.

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### SUCCESSFUL PROJECT

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An intuitive app that allows patients to easily enter in and manage their vital signs to track their prenatal health.

A robust dashboard view for clinicians that has an alerting mechanism to identify either preeclampsia or another prenatal condition.

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**Intellectual Property:** None