CS191 AND CS191W
CS SENIOR PROJECT
INDEPENDENT STUDY PROPOSAL

This form should be submitted the quarter before work on the project is begun. Completion of 135 units is a prerequisite for CS191 and CS191W. In the space below briefly describe the directed independent study project you plan to complete in order to fulfill the Senior Project portion of the CS program requirements. Discuss your proposal with the faculty member sponsoring and grading your project, your advisor, and the CS senior project advisor (Patrick Young). Submit completed proposals, including required signatures listed at the bottom of this form, to Meredith Hutchin in Gates room 160.

Name: Liezl Puzon   Date: _____

Email address: puzon@stanford.edu   Faculty Sponsor: _____
                                                                                                 (Please Print)

Project Proposal:

Develop a React Native app (with a complete Android distribution being the priority, since currently 73% of the target audience uses Android) to facilitate continued communication between Kiron students and educators. Kiron (kiron.ngo) is a non-profit social business based in Berlin that specializes in providing a platform for continuing education for refugees. I had the privilege to meet the organization as well as a few of their students when I was in Munich for Global Entrepreneurship Summer School.

This standalone app will help engage students after the initial course selection is completed on the Kiron webapp, which is almost completely separate from this software.

Deliverables: implementing a front end react-native components from app mockups, integrating Google SSO to allow students to sign in with @kiron.ngo accounts, building a system for *low connectivity* push notifications (potentially using Firebase or some other framework), and building an admin panel on Kiron's Laravel backend with the ability to push notifications to connected students
Extensions may include: iOS build, two-way messaging, static information / embedded YouTube videos, Kiron webapp integration (ability to send Chrome notifications through the same admin panel), student analytics and reminders (e.g. prompt a student to return to the platform if they completed 80% of a class, but haven't logged in for a while).

Note that this project does not involve my employment and I am receiving no compensation for this project.

Approved By:

Advisor: _____ (Julie Zelenski) Date: _____

Faculty Sponsor: _____ (Jerry Cain) Date: _____

Senior Project Advisor: _____ Date: _____
    (Patrick Young)