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EcoBud Startup

https://ecobud.app

HARVEY MUDD COLLEGE

Overview

EcoBud is a progressive web app that supports college dorm sustainability competitions.

Our goal is to allow college students to develop environmentally friendly habits while providing motivation through competing against friends and real-life rewards.
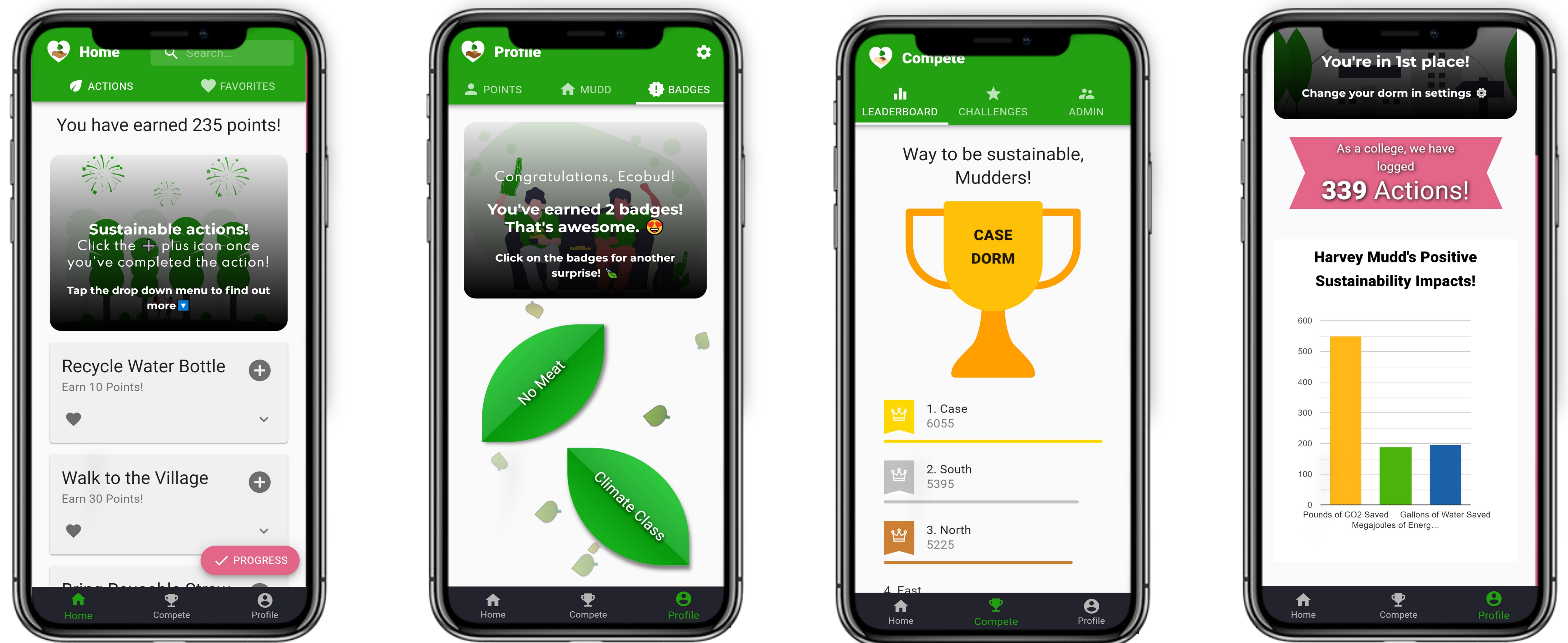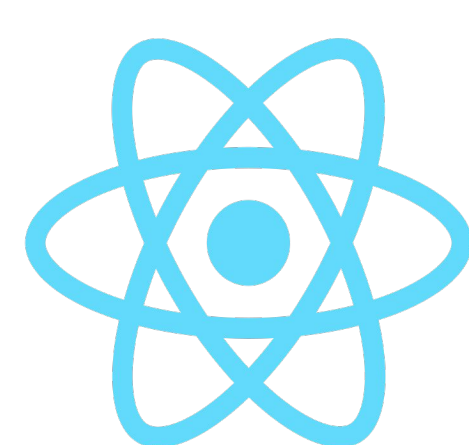
Functionality

Fig. 2: a) Front page of our app tutorial b) Homepage for logging sustainable actions c) Badges for mastered actions d) Leaderboard of most sustainable dorms

○ **Log sustainable actions to earn points** for user and dorm *(Fig. 2a)*.

○ **Earn badges** when actions are mastered *(Fig. 2b)*.

○ **Leaderboard** displays most sustainable dorms *(Fig. 2c)*.

○ **See positive environmental impact** of individual and entire college *(Fig. 2d)*.

Fig. 1: a) Front page of our app tutorial b) Sign up page in light and dark mode

Unique Selling Points

1 Designed for and supports college groups like dorms

2 Campus sustainability organizations provide incentives to students

3 Progressive Web App that is cross platform and functions like a native app

Technology *(Fig. 3)*

○ **EcoBud app** hosted at https://ecobud.app

ReactJS
Javascript React frontend

Firebase
Login authentication, Cloud Firestore & Realtime Database, Functions

Progressive Web App
Web app that can be saved to home screens of mobile devices

Fig. 3: The different components in our application

Market *(Fig. 4)*

College Students + College Sustainability Organizations

Fig. 4: EcoBud supports college students and campus sustainability organization

Competition

● No other applications exist that accommodate college sustainability competitions with real life rewards and motivation by dorms.

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