

Cash Cow Design Document

Project Objective: Our application is an idle-clicker game that builds upon the wallet assignment from ECS189e. We will implement gamification (badges, customization, virtual “currency”, rewards/penalties) to educate users on various aspects of personal finance.

Libraries

- **Animations:**
 - [Spring](#) (maybe)
 - [Hero](#)
- **Parsing:** [Japx](#) or [SwiftJSON](#)
- **Authorization:** [Simplicity](#) - FB & Google OAuth
- **Linters:** [SwiftLint](#)
- **Design:** [Dynamic Color](#) (?)
- **Date & Time:** [SwiftDate](#) (?)
- **UI Components:**
 - **Buttons**
 - [EasySocialButton](#) - pretty auth buttons?
 - [SSBouncyButton](#) - for our cow clicking
 - **Popups/Notifications**
 - [CatAlertController](#) - An easier way to use UIAlertController (for when we do popups for notifications or whatever)
 - [CRTToast](#)
 - [NVActivityIndicatorView](#)
 - [JVFloatLabeledTextView](#)
- **SDK:** Firebase
 - Auth, Analytics, Database, Storage

ViewControllers

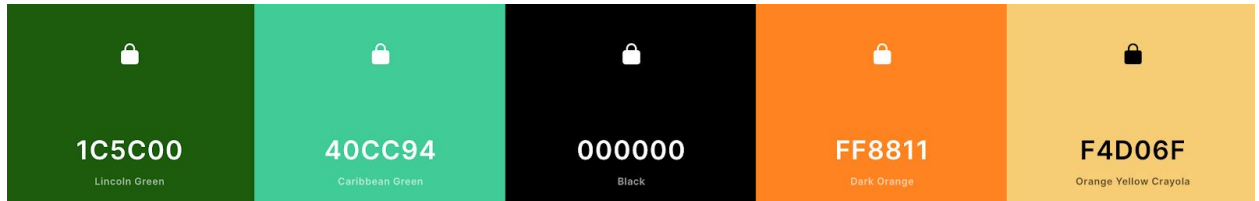
- **Launch:** logo; skip login/signup + verification if user is logged in
- **Login/Signup:** option to login (returning user), signup (new user) with email, Google, or FB
- **Verification:** for new users, verify account
- **Home Menu:** option to start game or logout
- **Clicker:** click to generate income while stamina is not empty; display user stats
- **Settings:** options (just logout until Milestone 2)
- **Upgrades:** TBD (no upgrades until Milestone 2)
- **Profile:** TBD (have basic stats in Clicker until Milestone 2)

Team Roles

- **Angie:** Doc writeups, team scheduling, sound design
- **Bridget:** API's, Firebase, testing + debugging
- **Jarod:** Design, auxiliary support
- **Rachel:** Front-end programming, testing + debugging

Project Schematics

- **Color scheme:**



- Lincoln Green 1c5c00
- Caribbean Green 40cc94
- Dark Orange ff8811
- Orange Yellow Crayola f4d06f

- **Font:** Proxima Nova
- **Font Sizes:**
 - Small -- 10px
 - Medium -- 20px
 - Large -- 30px
 - XL -- 50px
- **Models:** iPhone SE 2020, iPhone 11

Milestone 1 - (2/22)

- **Setup:** Github repository, design document, Trello board, Balsamiq wireframe
- **View Controllers:** Launch, login/signup, home, clicker
 - Storyboard views created
 - View controller code outlined
- **Next Steps:**
 - Fully functional clicker with income/stamina interaction
 - User authentication completed
 - Storyboard views for Upgrades, Profile, and Settings
 - Brainstorm feasible upgrade options + implementations