Stereotypes

Actors

User

Camera (?)

Business

Firebase

openALPR

GPS(?)

Challenge

Reports

Leaderboard

Trophies

Gallery (?)

Challenges (?)

Interface

Camera (?)

Gallery (?)

Leaderboard screen

Challenges screen

Profile screen (Reports?)

Trophies screen

Login screen

CRC Cards

| **Candidate Name:** User | |
| --- | --- |
| **Knows:**  Username  Password | **Collaborators:**  Firebase  OpenALPR  Camera  Leaderboard  Challenges  Profile  Trophies  GPS (?)  Gallery (?)  Login Screen  Leaderboard Screen  Challenges Screen  Profile Screen  Trophies Screen |
| **Does:**  Create account  Logs into system  View/Manage profile  Takes a picture  Views uploaded images (gallery)  View leaderboard  View trophies |

| **Candidate Name:** openALPR | |
| --- | --- |
| **Knows:** | **Collaborators:**  User  Camera |
| **Does:**  Identifies vehicle information |

| **Candidate Name:** Camera | |
| --- | --- |
| **Knows:** | **Collaborators:**  User  openALPR  Firebase  Gallery |
| **Does:**  Takes pictures  Saves to gallery |

| **Candidate Name:** Firebase | |
| --- | --- |
| **Knows:**  Data location  Picture information | **Collaborators:**  User  openALPR  Gallery  Leaderboard  Trophies  Challenges  Challenge |
| **Does:** |

| **Candidate Name:** Challenge (business class) | |
| --- | --- |
| **Knows:**  Start date  End date  Objective  (percentage completed?) | **Collaborators:**  User  Challenges  Challenge screen  Firebase |
| **Does:**  (calculates percentage completed?) |

| **Candidate Name:** Profile | |
| --- | --- |
| **Knows:**  Username  Password  Location  Date joined  Gallery (?) | **Collaborators:**  User  Firebase  Gallery (?) |
| **Does:**  Stores Profile information |

| **Candidate Name:** Challenges (report) | |
| --- | --- |
| **Knows:**  Current challenge(s) | **Collaborators:**  User  Challenge  Challenge screen  Firebase |
| **Does:**  Takes pictures  Saves to gallery |

| **Candidate Name:** Leaderboard (report) | |
| --- | --- |
| **Knows:**  Top users | **Collaborators:**  User  Challenge |
| **Does:**  Ranks users based on points (?)  Ranks users based on #/ or % of challenges complete/ completed(?) |

| **Candidate Name:** Trophies | |
| --- | --- |
| **Knows:**  Current challenge(s) | **Collaborators:**  User  Challenge  Challenge screen |
| **Does:**  Takes pictures  Saves to gallery |

| **Candidate Name:** Gallery | |
| --- | --- |
| **Knows:** | **Collaborators:**  User  Camera |
| **Does:** |

| **Candidate Name:** Login Screen | |
| --- | --- |
| **Knows:** | **Collaborators:**  User  Firebase |
| **Does:**  Gets username, password, location, etc. via user  Sends information to Firebase to create an account |

| **Candidate Name:** Leaderboard Screen | |
| --- | --- |
| **Knows:** | **Collaborators:** |
| **Does:**  Gathers a report of users |

| **Candidate Name:** Challenges Screen | |
| --- | --- |
| **Knows:** | **Collaborators:** |
| **Does:**  Displays uncompleted challenges  (?)Do completed challenges become trophies? |

| **Candidate Name:** GPS (?) | |
| --- | --- |
| **Knows:**  Location | **Collaborators:** |
| **Does:**  Gets location |