Class Name: QRScanner

Responsibilities: Collaborators
Use the camera to   Camera API
scan QR code.   CurrentQR

Class Name: QRScore

Responsibilities: Collaborators:
Scans and   Server
calculates points   CurrentQR
generated from   User
scanned QR

Generates and
passes a
CurrentQR
instance to the
server.

Gives points to
user.

Class Name: QRLogin

Responsibilities: Collaborators:
Scan a QR code   User
that represents a   Server
user and fetches
the user profile
from the server if
it exists.

Class Name: CreateAccount

Responsibilities: Collaborators:
                               User
Represents the   Server
account creation   HomePage
page

Presents the user
with input fields
to enter a user
name or scan a
QR code to login.

Collects
username and
sends it to the
server to create a
new user account

If information is
valid launches
homepage
activity

Class Name: User

Responsibilities: Collaborators:
Represent the   Server
user

Stores all profile
and security data
(stats, user name,
password)

Class Name: CurrentQR

Responsibilities: Collaborators
Represent the   QRScanner
scanned QR code   Server

Send the scanned
QR code data
(image, score,
location, user
comment)
and username
to the server.

Class Name: Server

Responsibilities: Collaborators:
Represents the   User
server/database

Stores all
information of all
users.

Passes location of
user and any
scanned QR codes
with geolocation
enabled to the Map
class.

Create new user/
access existing
account passed
from CreateAccount

Class Name: HomePage

Responsibilities: Collaborators
Represents home   Map
page   User
                               Server

Provides user with
account stats, the
map which shows
any nearby QR
codes with
geolocation on
and the option to
scan a QR code

Generate and
display user stats
from user data.

Class Name: Map

Responsibilities: Collaborators
Constructs the   Google Maps API
map and displays   Server
nearby QR codes.

Class Name: Search

Responsibilities: Collaborators:
Search for a user   Server
on the server
based on the
input of a
username.

Redirect user to
profile activity to
view searched
user.

Class Name: QRGenerator

Responsibilities: Collaborators:
Generate a QR   User
code to represent
the current
username.

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