# The Concept

A simple app that will:

- Scan phone numbers in user's contact list
- Get current City & country of user & store it in DB
- Display the contacts that are known to be in the same city and/or country as user (based on their phone number)
- Let the user call or message the displayed contacts through native options (phone, SMS, whatsapp, FB messenger, viber, etc)
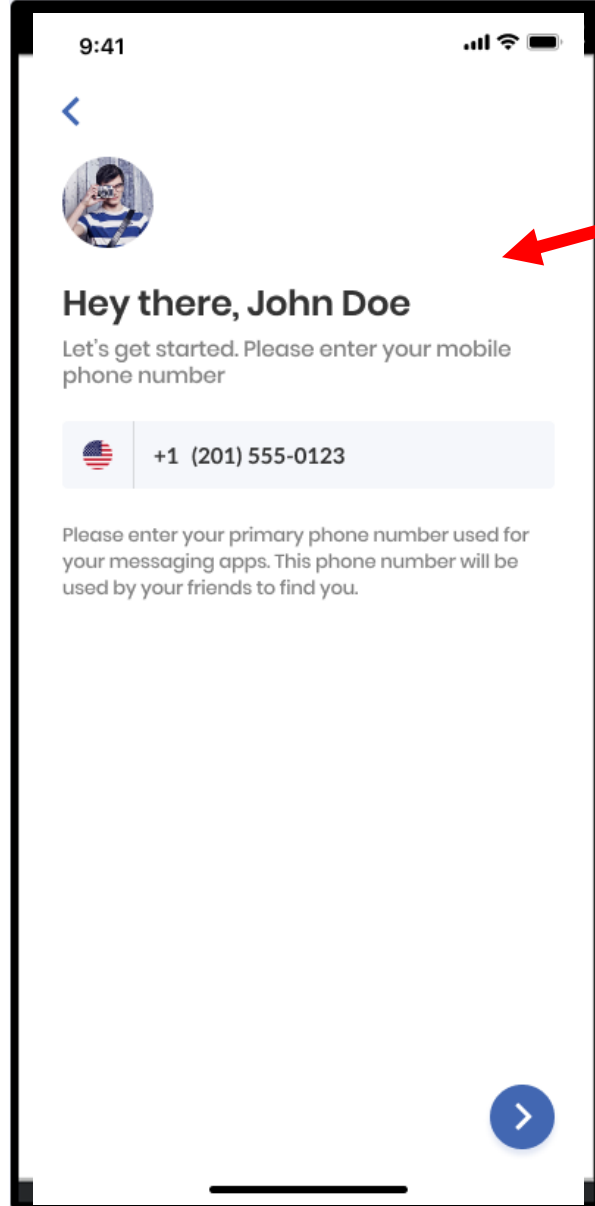- Notify users when they have outstation friends who are in town.

1.0 LAUNCH PAGE
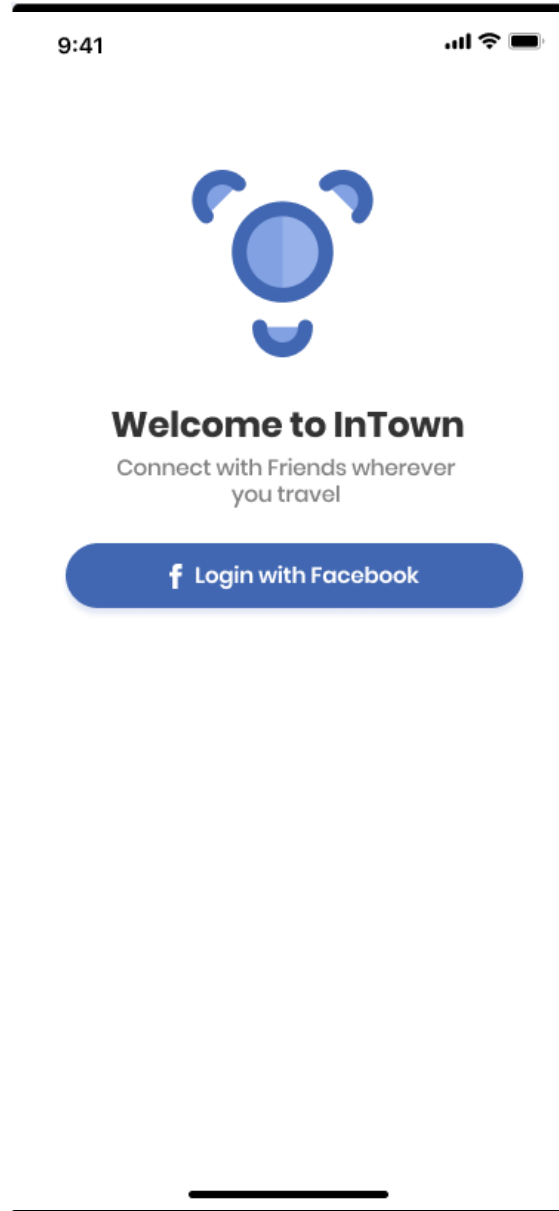
Use facebook for authentication. Request from facebook:
- Name
- Profile Pic
- Current City

1.1 Create Account

New users will be taken to Create Account screen

Load name and photo from FB

- Use phone number to identify users against contacts stored in phone
- Ignore 0 as first digit.
- If phone number is already associated to an account, display an error (phone number already in use)

In case this phone number was previously registered by a different user, they need to contact us to resolve.

Phone number verification using Twilio for OTP

2.0 Friends Listing screen

Menu Options:
- Change Phone No (takes user back to 1.1 screen)
- Invite friends to InTown (brings up native share options)
- Log Out

Reverse Geocode Google Maps to get City & country from location Lat & Long (results[7].formatted_address) or (results[4].formatted_address)

Need App Permissions to access:
- Contacts
- Location

When existing user logs in/ opens the app they will be taken to this screen that shows their list of friends (based on the mobile phone numbers of their contacts

Friends are identified by the mobile phone numbers in r contact list. This is matched against phone numbers in our User DB.
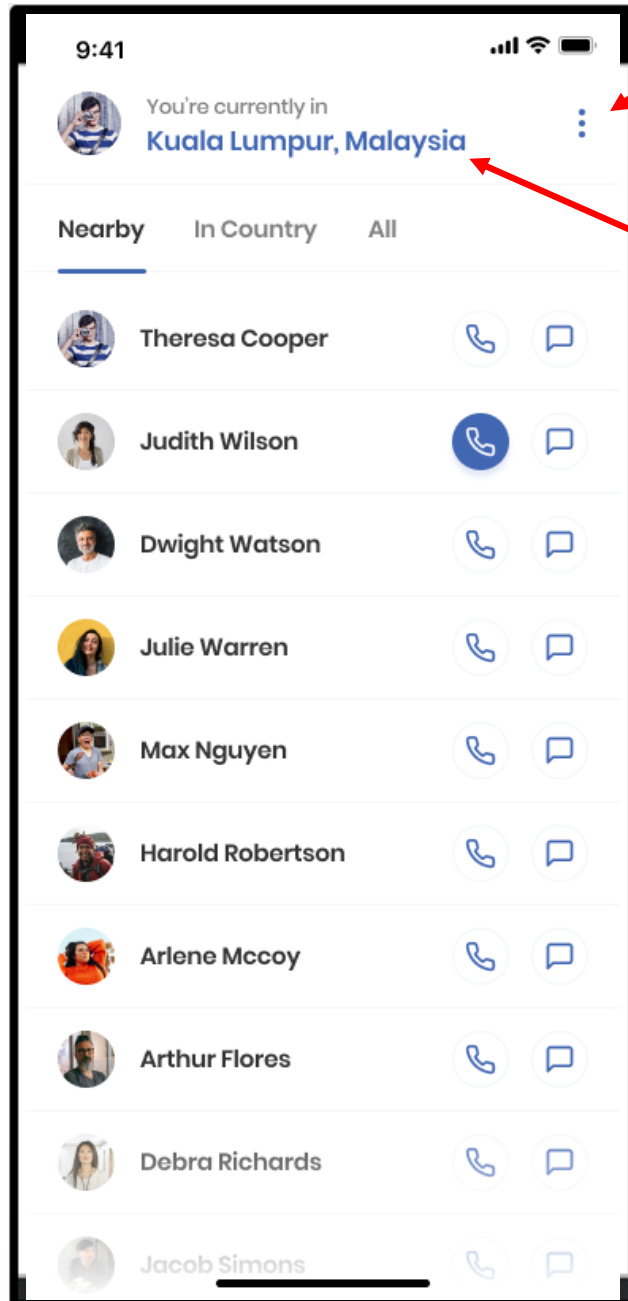
Any phone contact that is registered with *InTown* will appear here based on the filter rules

Dropdown that can be closed (open by default)

User's contacts filtered based on the selected tab – Nearby, In Country, All
*See Listing rules page for details

Call this contact with phone apps (phone, whatsapp, viber, etc)

Message this contact with messenger apps (SMS, whatsapp, FB messenger, WeChat etc)

Phone mockup content:

9:41

You're currently in
Kuala Lumpur, Malaysia

Nearby   In Country   All

- Theresa Cooper
- Judith Wilson
- Dwight Watson
- Julie Warren
- Max Nguyen
- Harold Robertson
- Arlene Mccoy
- Arthur Flores
- Debra Richards
- Jacob Simons

2.0 Friends Listing screen – no friends
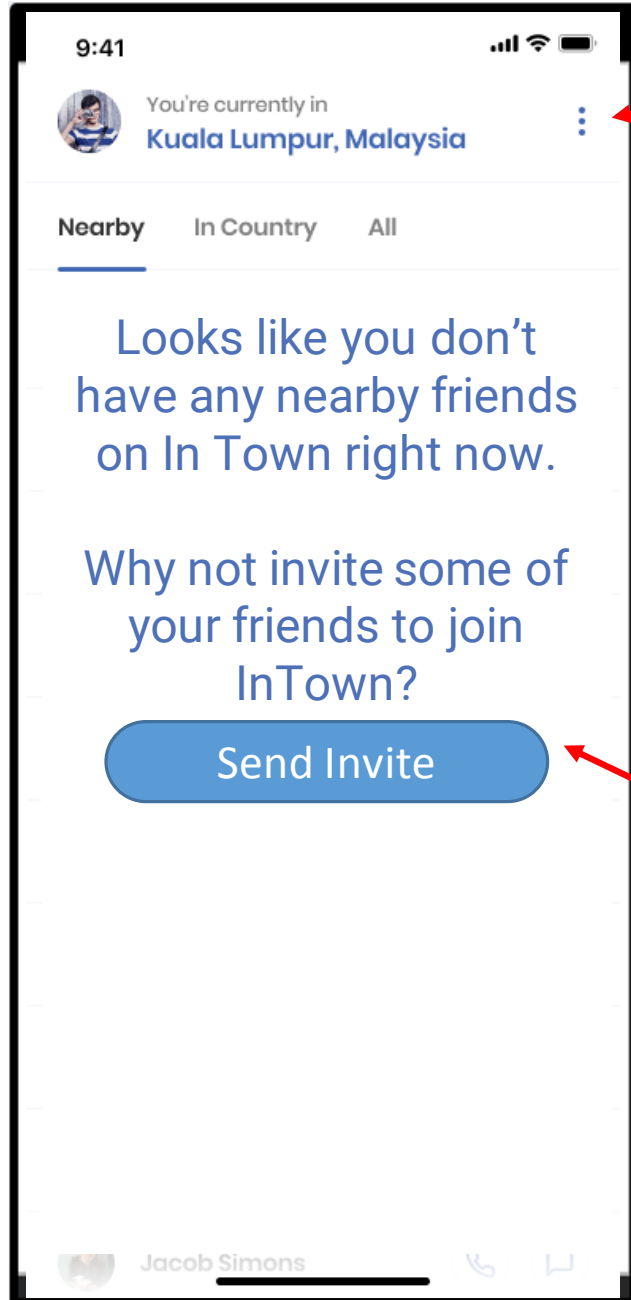
9:41

You're currently in
Kuala Lumpur, Malaysia

Nearby   In Country   All

Looks like you don't have any nearby friends on In Town right now.

Why not invite some of your friends to join InTown?

Send Invite

Jacob Simons

Menu Options:
- Change Phone No (takes user back to 1.1 screen)
- Invite friends to InTown (brings up native share options)
- Log Out

Need App Permissions to access:
- Contacts
- Location

If there are no users to show based on the rules then show a message to invite users to the app

Button triggers native share to mail, message,etc.

"Check out InTown, a great app to help you keep in touch with friends as you travel the world! Get it at https://url.here"

How to display Friends in listing screen

If user's location == "Current City" city in Facebook:

1) **For Nearby screen**
Show Contacts that have registered phone number with InTown where
   Facebook "Current City" city != user's location (city) AND current location
== user's location (city)
2) **For In Country screen**
Show Contacts that have registered phone number with InTown where
   Facebook "Current City" city != user's location (city) AND current location
== user's location (country)
3) **For All screen**
Show Contacts that have registered phone number with InTown

If user's location != Facebook "Current City" city:

1) **For Nearby screen**
Show Contacts that have registered phone number with InTown where
   current location == user's location (city)
2) **For In Country screen**
Show Contacts that have registered phone number with InTown where
   current location == user's location (country)
3) **For All screen**
Show Contacts that have registered phone number with InTown

Important Note regarding location & city.
- If user moves to a new town/city **<=45km AND in same country** – DO NOT treat user as having moved to new location
- Example 1:
    - User's FB "current city" is Kuala Lumpur, Malaysia.
    - User moves from Bangsar, Kuala Lumpur, Malaysia => Petaling Jaya, Selangor, Malaysia (distance <45km)
        - -> Treat user as still being in Kuala Lumpur, Malaysia
        - -> Show contacts in nearby based on **user's location == "Current City"**
- Example 2:
    - User's FB "Current City" = Kuala Lumpur, Malaysia
    - User moves from Johor Bahru, Malaysia => Woodlands, Singapore (distance<45 km)
        - -> Treat user as having changed cities (because country is different)
        - -> Show contacts in nearby based on **user's location !== "Current City"**
- Example 3:
    - User's FB "Current City" = Johor Bahru, Malaysia
    - User moves from Johor Bahru, Malaysia => Woodlands, Singapore (distance<45 km)
        - -> Treat user as having changed cities (because country is different)
        - -> Show contacts in nearby based on **user's location !== "Current City"**

Situation Examples – Friends Listing Screen

Me = registered in app, FB "Current City" = Kuala Lumpur, Malaysia.

Friends:
Ahmad - registered in app, currently in Kuala Lumpur, Malaysia
Ali - registered in app, currently in Penang, Malaysia
Raj - not registered, currently in Kuala Lumpur, Malaysia
Steve – registered in app, currently in Singapore
Max – not registered, currently in Singapore
Jason - registered in app, currently in Tokyo, Japan
Tom - registered in app, currently in Osaka, Japan
Sarah - not registered, currently in Osaka, Japan

**Case 1: My current location
= Kuala Lumpur, Malaysia**

Nearby Tab:
Show: *empty*

In Country Tab:
Show: *empty*

All Tab:
Show: Ahmad, Ali, Steve, Jason, & Tom

**Case 2: My current location
= Singapore**

Nearby Tab:
Show: Steve

In Country Tab:
Show: Steve

All Tab:
Show: Ahmad, Ali, Steve, Jason, & Tom

**Case 3: My current location
= Tokyo, Japan**

Nearby Tab:
Show: Jason

In Country Tab:
Show: Jason & Tom

All Tab:
Show: Ahmad, Ali, Steve, Jason, & Tom

Push Notifications Behaviour:

- Periodically check user's location (do this in a power saving way eg: once every 1 hour)
- Location Change detection rules:
    - If { {*current location city* <= 45km from *previous location city*}
        AND {*current location country* = *previous location country*} }
      - **Treat as if No Location change detected.**
    - If { {*current location city* <= 45km from *previous location city*}
        AND {*current location country* != *previous location country*} }
      - **location change detected.**
    - If { {*current location city* > 45km from *previous location city*}
        OR {*current location country* != *previous location country*} }
      - **location change detected.**

If location change detected:
- If *current location city* = FB "Current City"   - **No Push notification**
- If *current location city* != FB "Current City" – **Push Notification:** "Welcome to <City>! You have *xx* friends In Town"

When {
  friend with *current location city* != FB "Current City"
  AND *my location city* = *friend* location city **}**

Push notification: "<Friend name> is In Town! Why not say Hi?"

App Rules:

- Friends are matched by matching the mobile phone number of user's contacts with the phone numbers of registered *InTown* users.

- User can change their phone number at any time.

- Users who are logged out will be hidden from their friends and will not be notified of friends when they change locations