# Screen specification

## S0S: Start up



Input:

* User’s Phone number
* Display name

Output:

* Account in system
* Friend list of account ( base on phone number)

Methods:

1. Load User’s Phone number
2. Upload user’s Contact to DB
3. Create account
4. Create Friend list
5. Transition to Home Screen

## S00: Home Screen



Input:

* Account ID
* Filter condition: ( Shared, Be shared, Bookmark, ALL)
* Page index

Output:

* Item list (Default: Order by Date)

Methods:

1. Item list load (accounted, FilterCondition, PageIndex)
2. Item detail click (navigate to S01, client load without server)
3. Share Click ( new Item)
4. Sync contact from Local (Contact) –> Server -> Local (local DB app)
   1. A: Local Contact
   2. B: Local DB
   3. C: Server DB
   4. A compare B => AB
   5. AB compare C => ABC
   6. Overwrite ABC => B
5. Set ViewStatus = True ( Read already) in table SharedInfo on Server for Item list

## S01: Item Details



Input:

* Item object

Output:

* Item detail information

Methods:

1. Map loading with B (Current location) and A ( Item location)
2. B-A: Distance, duration calculation
3. Item info loading
4. Direction Click
5. Share Click (existed item; navigate to S02.2:To friend)
6. Close Click

## S02: Share Location ( new Item)



Input:

* None
* Pin location ( NULLABLE), NULL = Current position

Output:

* Item object

Methods:

1. Map loading ( current position (default) or pin location)
2. Item info ( Name, address, location) temporary saved ( for sharing)
3. ‘To friend’ click
4. ‘Close’ Click
5. ‘Pin on map’ Click

## S01.2: Direction (Transition to Google Map)



Input:

* A location
* B location

Output:

* None

Methods:

1. Map direction loading between B and A (Goolge API )

## S02.2: To friend



Input:

* Item info ( to share)

Output:

* Checked friend list of account
* Item info

Methods:

1. Load Friend list ( from local DB app)
2. Search by name
3. ‘Share’ click:
   1. Save shared Item info
   2. Push notification to shared users ( system notification)
   3. Navigate to Home ( reload the Item list)

## S02.3: Pin on Map



Input:

* Current position

Output:

* Location pin on map

Methods:

1. Map load with current position
2. Search location to pin (\*, yes if API support)
3. ‘Done’ click:
   1. Save Pin location
   2. Navigate back to S02 (with new location)
4. ‘Back’ click
   1. Navigate back to S02 ( without new location)

# DATABASE

## T01: Account

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | NULL | Default value | Remarks |
| ID | integer | No | Identity |  |
| Name | Nvarchar(100) | No |  | Display name |
| PhoneNumber | Varchar(15) | No |  | Phone number |
| CreatedDate | Datetime | No |  |  |
| ModifiedDate | Datetime | Yes |  |  |
| Status | Integer | No | 0 | 0:Normal  1:Delete |

## T02: Item

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | NULL | Default value | Remarks |
| ID | integer | No | Identity |  |
| Name | Nvarchar(100) | No |  | Item name |
| Address | Nvarchar(200) |  |  | Phone number |
| LocX | Integer | No |  |  |
| LocY | Integer | No |  |  |
| Owner | Integer | No |  | Account ID |
| CreateDate | Datetime | No | Record Time |  |
| ModifiedDate | Datetime | Yes |  |  |
| Status | Integer | No | 0 | 0:Normal 1:Delete |

## T03: Contact

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | NULL | Default value | Remarks |
| ID | integer | No | Identity |  |
| AccountID | Integer | No |  | Account ID |
| ContactName | Nvarchar(100) | No |  | Contact name |
| ContactNumber | Varchar(15) | No |  | Contact phone number |
| FriendID | integer | No |  | If contact number is existed in T01, then get Account ID in T01 and paste to FriendID |
| ModifiedDate | Datetime | Yes |  |  |
| Status | Integer | No | 0 | 0:Normal  1:Delete |
|  |  |  |  |  |

## T04: SharedInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | NULL | Default value | Remarks |
| ID | integer | No | Identity |  |
| AccountID | Integer | No |  |  |
| ItemID | Integer | No |  |  |
| FriendID | Integer | No |  |  |
| Type | Integer |  |  | 0: shared  1: be shared  2: bookmark |
| ViewStatus | Boolean | No | False | True: read already  False: not yet read |

LOCAL DATABASE:

T03: CONTACT

SETTING: …