

// User posting in news feed
// Public User Profile
// User Post follow option
// Personalization - sectionwise
// Search - ads feed, Chat feed & news feed
// Contact shop facility
// Share Options in News feed
// Group chat - group creation, group chat history
// Date label mechanism - chat, news & ads
// Show coin earned champions chart

Main Program

1 : Application Launch with logo
2 : Retrieve application installation status from local db
3 : If it is first time,
4: Show application introduction with skip action
5: Ask for invitation code with skip action
6: If invitation code is given,
7: Retrieve invitation code details from server db
8: If invitation code is valid,
9: Insert invitation code on phone local db for reference
10: Call New User registration function(true)
11: else
12: Generate appropriate error message
13: end if

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14:     end if
15: end if
16: Retrieve location of the user - automatic with/without prompt
17: If location retrieval is success,
18:     Register location on local db
19: else
20:     if prompt result is false,
21:         Call manual location function(false)
22:     end if
23: end if
24: Display location on Action bar
25: If event is location Textview click,
26:     Call manual location function(true)
27: end if
28: Post location data to server db
29: Retrieve recent ads filtered by posted location
30: Call Setup Dashboard Function
31: if event is advertisement click,
32:     Call Present Advertisement Function
33: end if
34: if event is news feed click,
35:     Retrieve recent news from server db
36:     Show sectioned news with events - comments, Display like function & new comment
37:     if event is comment,
38:         Expand selected comment
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39:     end if
40:     if event is new comment,
41:         Receive input - comment text
42:         Insert comment to server db
43:     end if
44:     if event is like/dislike,
45:         Update server db
46:     end if
47: end if
48: if event is chat feed click,
49:     Retrieve login status from local db
50:     If login is valid,
51:         Show chat list with add new contact event
52:         Call Present selected chat function
53:         if event is add new contact,
54:             Check selected contact
55:             if contact is in Tricoïn circle,
56:                 Call Present selected chat function
57:             else
58:                 Send invitaion SMS
59:             end if
60:         end if
61:         Register advertisement as Bookmark on local db & server db
62:     else
63:         Call Show login screen function
```

64: Goto step 50

65: end if

66: end if

67: if event is show favorites click,

68: Show favorites list

69: If event is favorite click,

70: Call Present Advertisement Function

71: end if

72: end if

73: if event is show bookmarks click,

 Retrieve login status from local db

74: If login is valid,

75: Retrieve Bookmark List from server db

76: Show Selected Bookmark QR Code with information

77: else

78: Call Show login screen function

79: Goto step 68

80: end if

81: end if

82: if event is profile click,

83: Retrieve login status from local db

84: If login is valid,

85: Retrieve User details, His Coins & invitation code from server db

86: Show User details with edit event

87: If event is edit user details,

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88:             Validate inputs
89:             If Validation is success,
90:                 Update Server db
91:             else
92:                 Generate Appropriate Error messages
93:             end if
94:         end if
95:         Call Show Wallet function
96:         Show Invitation code with share options
97:     else
98:         Call Show login screen function
99:         Goto step 68
100:    end if
101: end if
102: if event is banking options click,
103:     Retrieve login status from local db
104:     If login is valid,
105:         Check Adar ID & Banking details is available or not
106:         if Available
107:             Retrieve levels required for coin withdraw & coin transfer
108:             if User has required level
109:                 Show events - withdraw & transfer & requests
110:                 if event is withdraw/transfer
111:                     Send permission request to admin
112:                 end if
```

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113:         if event is request selection
114:             if request is granted
115:                 if request is withdraw
116:                     decrease sender wallet
117:                     increase administrator wallet
118:                     add a processing request on server db
119:                 end if
120:                 if request is Transfer
121:                     Select receptionist screen
122:                     If receptionist is not in Tricoins circle
123:                         Send an invitation SMS
124:                     else
125:                         Decrease sender wallet
126:                         Increase receptionist wallet
127:                     end if
128:                 end if
129:             end if
130:             if request is processing
131:                 if request is success
132:                     Convey user
133:                 else
134:                     Generate appropriate error messages
135:                 end if
136:             end if
137:         end if

```

```
138:             else
139:                 Gerenrate appopriate error messages
140:             end if
141:         else
142:             Gerenrate appopriate error messages
143:             Ask for Adar & Banking details
144:         end if
145:     else
146:         Call Show login screen function
147:         Goto step 104
148:     end if
149: end if

150: if event is inbox click,
151:     Retrieve login status from local db
152:     If login is valid,
153:         Retrieve messages from server db
154:         Show Selected message information
155:     else
156:         Call Show login screen function
157:         Goto step 152
158:     end if
159: end if
```

Show wallet function

```
1: Retrieve wallet levels from server db
```

2: Match with user wallet coins to show level

Present Advertisement Function

- 1: Retrieve selected advertisement data, advertisement host shop data & it's reviews
- 2: Construct Youtube link
- 3: Construct Map link
- 4: Show advertisement details with events - Display Favorite Action Function & Bookmark
- 5: if event is Favorite/Unfavorite,
- 6: Register advertisement as Favorite on local db
- 7: end if
- 8: if event is Bookmark,
- 9: Call QR Generation function
- 10: end if
- 11: Show reviews with event rating
- 12: if event is review rating
- 13: Register review rating on server db
- 14: end if

Present selected chat function

- 1: Show Chat History - with events Add new contact & Block/report options
- 2: If event is Add new contact,
- 3: Call sync phonebook function
- 4: end if
- 5: if event is block/report,
- 6: Update Server db

7: end if

Display like function

// Similiar to Display Favorite Action function

// Except db used for search is server db for liked news

Display Favorite Action Function

1: Check local db for Favorite item

2: if found,

3: return Unfavorite

4: else

5: return Favorite

6: end if

QR Generation function

1: Retrieve login status from local db

2: If login is valid,

3: Generate QR Code

4: Register advertisement as Bookmark on local db & server db

5: else

6: Call Show login screen function

7: Goto step 2

Show login screen function

1: Show login screen which includes login & registration events

```
2: If event is login,
3:     Check User credentials - Username & Password
4:     If success,
5:         Update login status on local db
6:         Call sync phonebook function
7:     else
8:         Generate appropriate error message
9:     end if
10: end if
11: If event is register,
12:     Call New User registration function
13: end if
```

Sync phonebook function

```
1: Retrieve Tricoin Users from server db
2: Retrieve phone contacts
3: Filter Tricoin Users from phone contacs
4: Insert Filtered Tricoin Users to phone db
```

Manual location function (Boolean Current location Availability)

```
1: If Current location is available
2:     Show Km radious range selection for precise location
3:     Choose Km radious range
4:     Add selected Km radious range to local db
5: else
```

- 6: Display Main city list
- 7: Choose a main city
- 8: Set selected main city coordinates as current location
- 9: end if

Setup Dashboard Function

- 1: Construct event list with base values - News feed, Chat feed, Profile, Inbox, Favorites, Bookmarks, Banking Options & ad filtration (sorting and categorization), logout
- 2: Retrieve login status from local db
- 3: if login status is found,
- 4: Add logout to previously constructed event list.
- 5: end if
- 6: Show Advertisement feed with retrieved ads & event list
- 7: if event is ad filtration,
- 8: Apply filter on retrieved ads feed
- 9: Reload Ads feed with filtered results
- 10: end if

Give Invitation Income function

- 1: Retrieve number of invitaion bonus coins
- 2: Add invitaion bonus coins to current coins of referenced user

New User registration Function(Boolean Invitation code availability)

- 1: Show registration screen
- 2: If event is registration submit,
- 3: Valdate Required - Name, Phone, Username & Password

```
4:    Validate Uniqueness - Username, Email, Adar ID, Phone
5:    OTP Validation - Phone
6:    if Validation Result is Success,
7:        Register User on Server db
8:        If invitation code is available
9:            Retrieve number of invited bonus coins
10:           Initialise newly registered user wallet with invited bonus coins
11:        end if
12:        Call Give invitation income function
13:    end if
19: end if
```