2.1.1 System interface

2.1.1.1Gui

Frist time user should be able to see home page that contain posts .

Home page should contain missing children posts.

Each post should consists of post owner name ,picture ,name of missing children,

Description for him, lost place ,lost date ,way to communicate with parent and extra information of required.

Registered User should be able to make comments .first time user should be register first to be able to interact with the system ."seen" icon behind each post allow user to make report if he saw the child in some place.

Seen form allow user to put the place that he saw the child and discerption.

After creating account ,User should have profile .User should be allowed to edit his profile info like username ,password ,residence place in edit profile view. User also can change application language.

Registered user can make new post by uploading photo and filling all required information fields. “new post" icon should refer to make post view.

there is search bar in the top of the page .search should be by words or photo. list of result displayed in search result view if the search is done using words. One or group of photos are shown as a result of search.

navigation menu navigate user to other app views .user should be allowed to make post for lost item .lost items view should show lost items categorized by many categories. user should be allowed to create post in add lost item form by adding lost place , description of item ,date of lost and way for communication .

2.1.1.2API

2.1.1.2.1search by photo

Our system should integrate with Kairos API to make search in photos and get accurate results. API will handle image processing and face recognition functionalities. API recognize each photo enters database. API compare photos and return similar photos .API will be used using php

Reference :https://www.kairos.com/face-recognition-api

2.1.1.2.2share posts

we will use Facebook API to provide communication between Facebook groups with our system .we will integrate with android api to share posts by different ways.

Reference :https://developers.facebook.com/docs/android

2.1.1.2.3secify location

system will use google map api to help user to specify and share location in easy way.

2.1.1.2.4 sending and retrieving data

we will develop custom Restful web service APIS as a back end for our application .API will concerned with sending and retrieving data from server. api will send response as jason format and take request from application. RESTFul APIS make database connectivity and manipulation.

2.1.1.3cli

developers of the system need get hub commands to facilitate communication and better source code share.

2.1.2 software Interface

lost children app is native mobile application will be developed under the Android operating systems environment using the Java JDK and the Android SDK tools. android studio ,packages and libraries are used .system runs in android jelly beans and higher versions. System interacts with database in the server side .system shall communicate with phpmyadmin to run mysql data queries .system shall use volly framework to handle request and response between android application and backend .the application sends set of data and photos from posts and users interaction to server as Outgoing data .system receives from server is photo response and retrieved data from requests as Incoming data.

2.1.3 Hardware Interface

lost children app is an internet based application . the application need mobile device supported gps ,internet connection, data exchanging, camera.

communication between server and application needs network with based on HTTP and HTTPS