DonApp: The Donate App

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Chapter 1

Steps to setup the server and run the Project

For setting up the database:

1. Download and install Xampp from the following link https://www.apachefriends.org/download.↩ html
2. For Windows: Open Xampp Control Panel from the directory where Xamppwas installed.

(a) In the Xampp control panel, start the modules for 'Apache' and 'MySQL'

(b) After both the modules have started, click on 'Admin' button for 'Apache'module.

(c) A webpage will open up in the browser. Click on the tab 'phpMyAdmin'(usually on the top right).

1. For Linux: Go to the directory /opt/lampp and run the command: sudo./xampp start4 • In a browser open localhost/phpmyadmin
2. On the left click on option 'new' to create a new database. Name the databaseas 'firstDB'.
3. Click on the icon for newly created Database 'firstDB' and go to the 'SQL'tab.
4. Run the following command in terminal / command prompt for enabling httpserver to respond to image requests

ruby -run -ehttpd . -p8000 [2019-11-27 08:44:40] INFO WEBrick 1.4.2[2019-11-27 08:44:40]

INFO ruby 2.5.1 (2018-03-29) [x8664-linux-gnu][2019-11-27 08:44:40]

INFO WEBrick::HTTPServer::start: pid=5175 port=8000

1. Type the following commands and click on Go:

CREATE TABLE 'itemlist' ('itemid' int(11) NOT NULL, 'itemname'varchar(30) NOT NULL, 'place' text NOT NULL DEFAULT 'IITB','imagepath' text NOT NULL, 'description' text NOT NULL DEFAULT'No further info', 'contact' varchar(20) NOT NULL DEFAULT '0', 'cat-egory' enum('Education','Sports','Food','Clothing','Footwear', 'Station-ary','↩ Others') NOT NULL DEFAULT 'Others', 'donorid' text NOT NULLDEFAULT '0, 'doneeid' text NOT NULL DEFAULT '0', 'status' enum('added','requested','approved','') NOT NULL DEFAULT 'added')

CREATE TABLE 'users' ('id' int(20) NOT NULL, 'username' var-char(70) NOT NULL, 'password' varchar(40) NOT NULL, 'email' var-char(50) NOT NULL, 'dibscount' int(11) NOT NULL DEFAULT 0, 'cre-atedat' datetime NOT NULL, 'updatedat' datetime DEFAULT NULL) For the source code:

1. Find out the IP address of the system where the Xampp is being run. Usethe commands 'ipconfig' in Windows Command Prompt Shell or 'ifconfig' inLinux to obtain the IP addresses.
2. Copy the IP address to the java file in the path: \DonApp-master\DonApp\src\main\java\com\journaldev\↩ DonApp\ipaddress.java in the static String variable'ipadd'.
3. We use Android Studio which can be downloaded from https://developer.android.↩ com/studio
4. After installing Android Studio, download SDK for Android 8.0 (api 24)
5. The entire folder 'Donapp-master' should be used as a project for AndroidStudio.
6. Build and Run the Project. The apk file can be made from here and installedin any smartphone for usage.

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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com.journaldev.DonApp.Item 11
com.journaldev.DonApp.LoginJSONParser 17
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    com.journaldev.DonApp.add_item 7
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    com.journaldev.DonApp.List_of_items 16
    com.journaldev.DonApp.MainActivity 18
ArrayAdapter
    com.journaldev.DonApp.ItemAdapter 13

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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com.journaldev.DonApp.addItemJSONParser
A class for parsing JSON Object for an item that we add . . . 9
com.journaldev.DonApp.CallDibs
This is a class to call Dibs on any item which means to mark as interested for an item . . . 10
com.journaldev.DonApp.ipaddress
A class to store IP address for use in other classes . . . 11
com.journaldev.DonApp.Item
This is a class for details of item . . . 11
com.journaldev.DonApp.ItemAdapter
A class to populate the list . . . 13
com.journaldev.DonApp.ItemDescription
This class is responsible for providing full description of the item . . . 15
com.journaldev.DonApp.List_of_items
Class to display list of items . . . 16
com.journaldev.DonApp.LoginJSONParser
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com.journaldev.DonApp.MainActivity
A class for Login and registration functions . . . 18

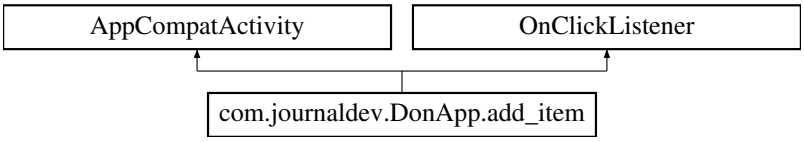
Chapter 4

Class Documentation

4.1 com.journaldev.DonApp.add_item Class Reference

A class to add an item to the list.

Inheritance diagram for com.journaldev.DonApp.add_item:



Public Member Functions

- void uploadMultipart ()
- String getPath (Uri uri)
- void onRequestPermissionsResult (int requestCode, @NonNull String[ ] permissions, @NonNull int[ ] grant↩ Results)
- void onClick (View v)
- void openList ()

Static Public Attributes

- static final String **UPLOAD_URL** = "http://"+ipaddress.ipadd+"/itemphp/upload.php"

Protected Member Functions

- void onCreate (Bundle savedInstanceState)
- void onActivityResult (int requestCode, int resultCode, Intent data)

4.1.1 Detailed Description

A class to add an item to the list.

4.1.2 Member Function Documentation

4.1.2.1 getPath()

```
String com.journaldev.DonApp.add_item.getPath (
            Uri uri )  [inline]
```

A method to get the file path from uri

Parameters

uri	The uniform resource indicator for the file

4.1.2.2 onActivityResult()

```
void com.journaldev.DonApp.add_item.onActivityResult (
            int requestCode,
            int resultCode,
            Intent data )  [inline], [protected]
```

A function for handling the image chooser activity result

4.1.2.3 onClick()

```
void com.journaldev.DonApp.add_item.onClick (
            View v )  [inline]
```

Function to show file chooser and to upload the image

Parameters

v	View corresponding to the button

4.1.2.4 onCreate()

```
void com.journaldev.DonApp.add_item.onCreate (
            Bundle savedInstanceState )  [inline], [protected]
```

Function called at the beginning

Parameters

savedInstanceState	A reference to a Bundle object that is passed into the onCreate method of every Android Activity

4.1.2.5 onRequestPermissionsResult()

```
void com.journaldev.DonApp.add_item.onRequestPermissionsResult (
            int requestCode,
            @NonNull String[] permissions,
            @NonNull int[] grantResults )  [inline]
```

This method will be called when the user will tap on allow or deny

Parameters

requestcode	The request code corresponding to this request
permissions	The permissions which are needed
grantResults	The reply for permission requests from the user

4.1.2.6 openList()

```
void com.journaldev.DonApp.add_item.openList ( )  [inline]
```

Function to open list of items

4.1.2.7 uploadMultipart()

```
void com.journaldev.DonApp.add_item.uploadMultipart ( )  [inline]
```

This is the method responsible for image upload We need the full image path and the name for the image in this method

The documentation for this class was generated from the following file:

- add_item.java

4.2 com.journaldev.DonApp.addItemJSONParser Class Reference

A class for parsing JSON Object for an item that we add.

Public Member Functions

- JSONObject makeHttpRequest (String url, String method, ArrayList< NameValuePair > params)

4.2.1 Detailed Description

A class for parsing JSON Object for an item that we add.

4.2.2 Member Function Documentation

4.2.2.1 makeHttpRequest()

```
JSONObject com.journaldev.DonApp.addItemJSONParser.makeHttpRequest (
            String url,
            String method,
            ArrayList< NameValuePair > params )  [inline]
```

This function is used to make HTTP requests to the server for adding items

Parameters

url	A string which contains the url
method	GET or POST method
params	An array-list of key value pairs which are parameters

Returns

A JSON object of reply from database.

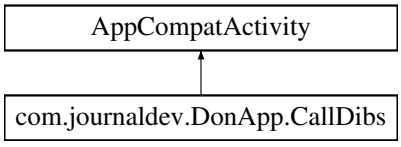
The documentation for this class was generated from the following file:

- addItemJSONParser.java

4.3 com.journaldev.DonApp.CallDibs Class Reference

This is a class to call Dibs on any item which means to mark as interested for an item.

Inheritance diagram for com.journaldev.DonApp.CallDibs:



Protected Member Functions

- void onCreate (Bundle savedInstanceState)

4.3.1 Detailed Description

This is a class to call Dibs on any item which means to mark as interested for an item.

4.3.2 Member Function Documentation

4.3.2.1 onCreate()

```
void com.journaldev.DonApp.CallDibs.onCreate (
            Bundle savedInstanceState )  [inline], [protected]
```

This function is called upon creation

It gets info about which item has been called upon for dibs from intent.

The documentation for this class was generated from the following file:

- CallDibs.java

4.4 com.journaldev.DonApp.ipaddress Class Reference

A class to store IP address for use in other classes.

4.4.1 Detailed Description

A class to store IP address for use in other classes.

The documentation for this class was generated from the following file:

- ipaddress.java

4.5 com.journaldev.DonApp.Item Class Reference

This is a class for details of item.

Public Member Functions

- Item (int mImageDrawable, String mName, String mRelease)
- int getmImageDrawable ()
- String getmName ()
- String getmRelease ()

4.5.1 Detailed Description

This is a class for details of item.

4.5.2 Constructor & Destructor Documentation

4.5.2.1 Item()

```
com.journaldev.DonApp.Item.Item (
            int mImageDrawable,
            String mName,
            String mRelease )  [inline]
```

Constructor that is used to create an instance of the Item object

Parameters

mImageDrawable	Locally stored image
mName	Name of Item
mRelease	Available at place where item is available

4.5.3 Member Function Documentation

4.5.3.1 getmImageDrawable()

```
int com.journaldev.DonApp.Item.getmImageDrawable ( )  [inline]
```

A function that returns drawable image

Returns

Drawable Image

4.5.3.2 getmName()

```
String com.journaldev.DonApp.Item.getmName ( )  [inline]
```

Function to return name

Returns

It returns the name of item

4.5.3.3 getmRelease()

```
String com.journaldev.DonApp.Item.getmRelease ( )  [inline]
```

Function to return the place where object is present

Returns

It returns the name of the place

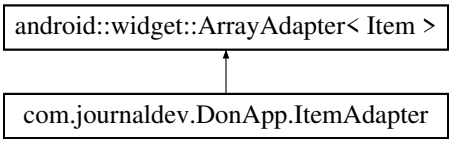
The documentation for this class was generated from the following file:

- Item.java

4.6 com.journaldev.DonApp.ItemAdapter Class Reference

A class to populate the list.

Inheritance diagram for com.journaldev.DonApp.ItemAdapter:



Public Member Functions

- **ItemAdapter** (@NonNull Context context, @LayoutRes ArrayList< Item > list)
- View getView (int position, @Nullable View convertView, @NonNull ViewGroup parent)

4.6.1 Detailed Description

A class to populate the list.

4.6.2 Member Function Documentation

4.6.2.1 getView()

```
View com.journaldev.DonApp.ItemAdapter.getView (
            int position,
            @Nullable View convertView,
            @NonNull ViewGroup parent )  [inline]
```

A function to populate the items in the list

Parameters

position	Position of item in the listview
convertView	The current view
parent	The viewgroup

Returns

Returns the list of item

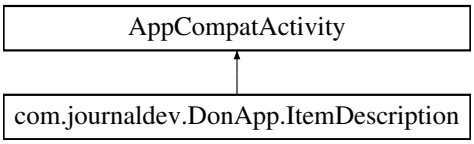
The documentation for this class was generated from the following file:

- ItemAdapter.java

4.7 com.journaldev.DonApp.ItemDescription Class Reference

This class is responsible for providing full description of the item.

Inheritance diagram for com.journaldev.DonApp.ItemDescription:



Classes

- class **ImageFetch**

Public Member Functions

- void Add_items_to_list ()

Protected Member Functions

- void onCreate (Bundle savedInstanceState)

4.7.1 Detailed Description

This class is responsible for providing full description of the item.

4.7.2 Member Function Documentation

4.7.2.1 Add_items_to_list()

```
void com.journaldev.DonApp.ItemDescription.Add_items_to_list ( )  [inline]
```

Function for calling intent to display same page again.

4.7.2.2 onCreate()

```
void com.journaldev.DonApp.ItemDescription.onCreate (
            Bundle savedInstanceState )  [inline], [protected]
```

Function executed at the time of creation of the page.

Parameters

savedInstanceState	A reference to a Bundle object that is passed into the onCreate method of every Android Activity

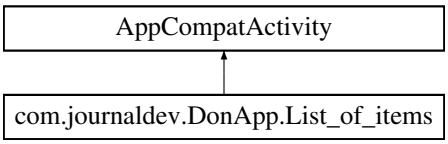
The documentation for this class was generated from the following file:

- ItemDescription.java

4.8 com.journaldev.DonApp.List_of_items Class Reference

Class to display list of items .

Inheritance diagram for com.journaldev.DonApp.List_of_items:



Public Member Functions

- boolean **onCreateOptionsMenu** (Menu menu)
- boolean **onOptionsItemSelected** (MenuItem item)
- void Add_items_to_list ()

  add new item intent will be called.

Protected Member Functions

- void onCreate (Bundle savedInstanceState)

  this is start of this class on create

4.8.1 Detailed Description

Class to display list of items .

The documentation for this class was generated from the following file:

- List_of_items.java

4.9 com.journaldev.DonApp.LoginJSONParser Class Reference

A class for parsing JSON Object for login credentials.

Public Member Functions

- JSONObject makeHttpRequest (String url, String method, ArrayList< NameValuePair > params)

4.9.1 Detailed Description

A class for parsing JSON Object for login credentials.

4.9.2 Member Function Documentation

4.9.2.1 makeHttpRequest()

```
JSONObject com.journaldev.DonApp.LoginJSONParser.makeHttpRequest (
            String url,
            String method,
            ArrayList< NameValuePair > params )  [inline]
```

This function is used to make HTTP requests to the server

Parameters

url	A string which contains the url
method	GET or POST method
params	An array-list of key value pairs which are parameters

Returns

A JSON object of reply from database.

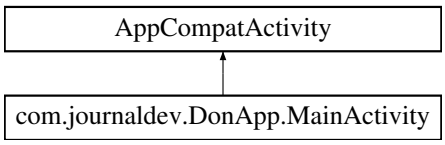
The documentation for this class was generated from the following file:

- LoginJSONParser.java

4.10 com.journaldev.DonApp.MainActivity Class Reference

A class for Login and registration functions.

Inheritance diagram for com.journaldev.DonApp.MainActivity:



Public Member Functions

- void openList ()

Protected Member Functions

- void onCreate (Bundle savedInstanceState)

4.10.1 Detailed Description

A class for Login and registration functions.

/

4.10.2 Member Function Documentation

4.10.2.1 onCreate()

```
void com.journaldev.DonApp.MainActivity.onCreate (
            Bundle savedInstanceState )  [inline], [protected]
```

Function executed at the time of creation of the page.

Parameters

savedInstanceState	A reference to a Bundle object that is passed into the onCreate method of every Android Activity

4.10.2.2 openList()

```
void com.journaldev.DonApp.MainActivity.openList ( )  [inline]
```

Function to call another activity

Intent is used to call another activity

The documentation for this class was generated from the following file:

- MainActivity.java

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