

**Mobility Assignmet2 Part1:**  
**Task 2: Mobile e-commerce system design and  
implementation Report**

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## 1 Project Overview

The objective of this project is to develop an interactive mobile application, called “Mobile e-ticket service for a Airline”. The system allows users to search Flight in the database according to the date they select. Also, the Flight detail will be sent back to the user`s mobile after they select a particular Flight. The project will use Android, PHP and Mysql.

## 2 Interface Design

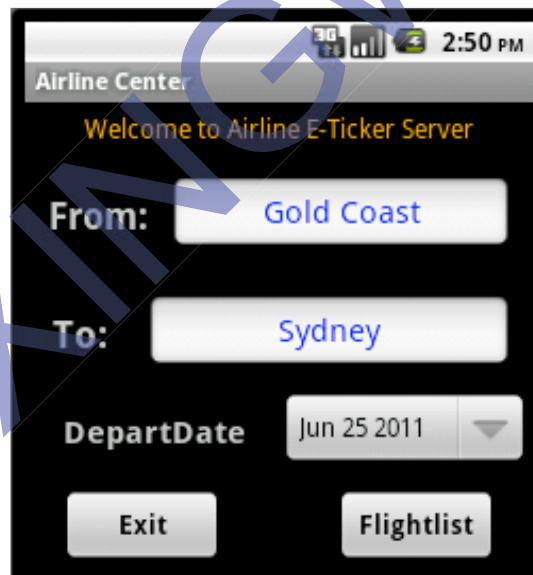
This section introduce the designing of the user interface.

### Screen #1 – Main page

Description

After launching the application, the user will see this page. This page will enable the user to choose a depart date for the flight; the default is set to current system day.

GUI Design

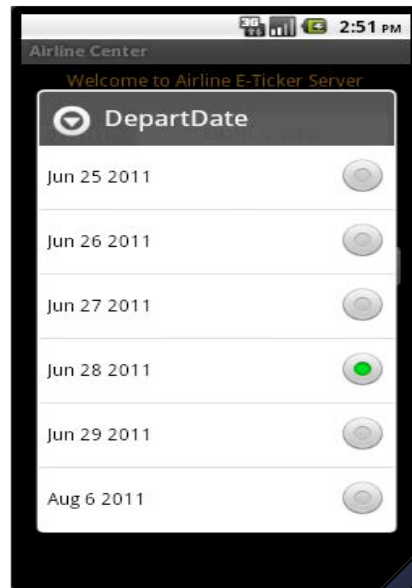


### Screen #2 – Select Date

Description

This screen displays a schedule form. The date field will display a list of date, where the user can easily select a new date.

GUI Design

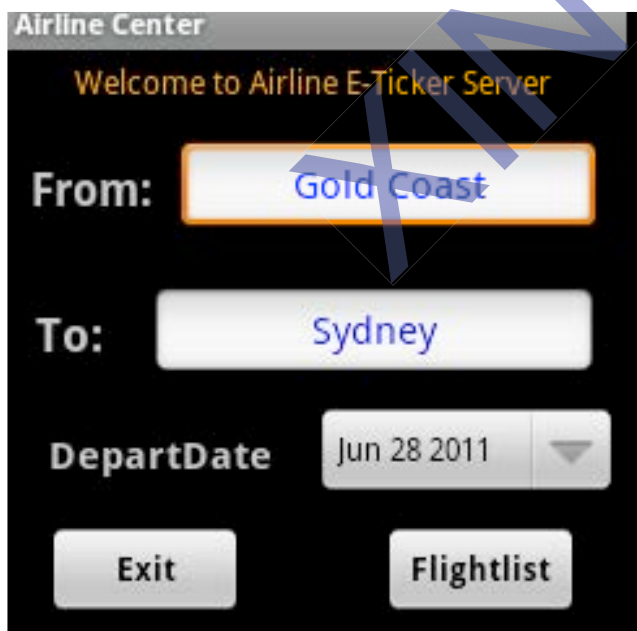


### Screen #3 – Start Searching

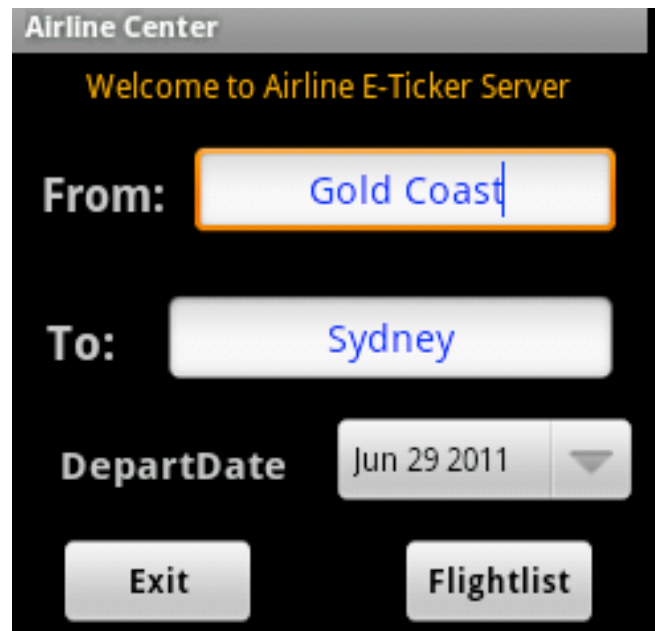
#### Description

After users select a date for searching flights, the application will return to the main page, users can press the FlightList button to start searching. We select two departe date: select 1 and select2 to search flights.

#### GUI Design



select 1



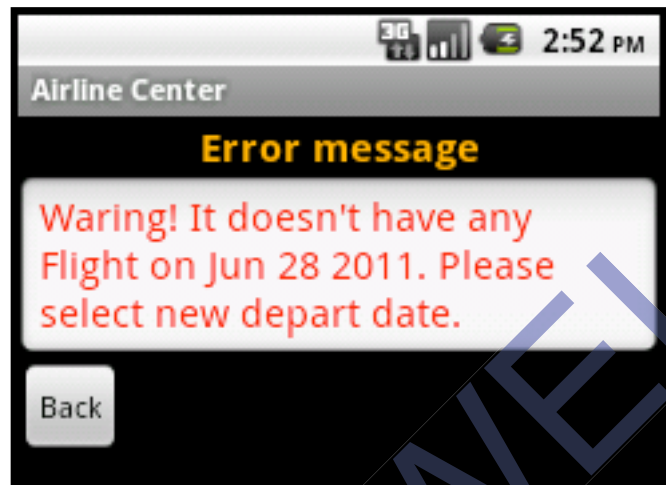
select2

#### Screen #4 – Display search result

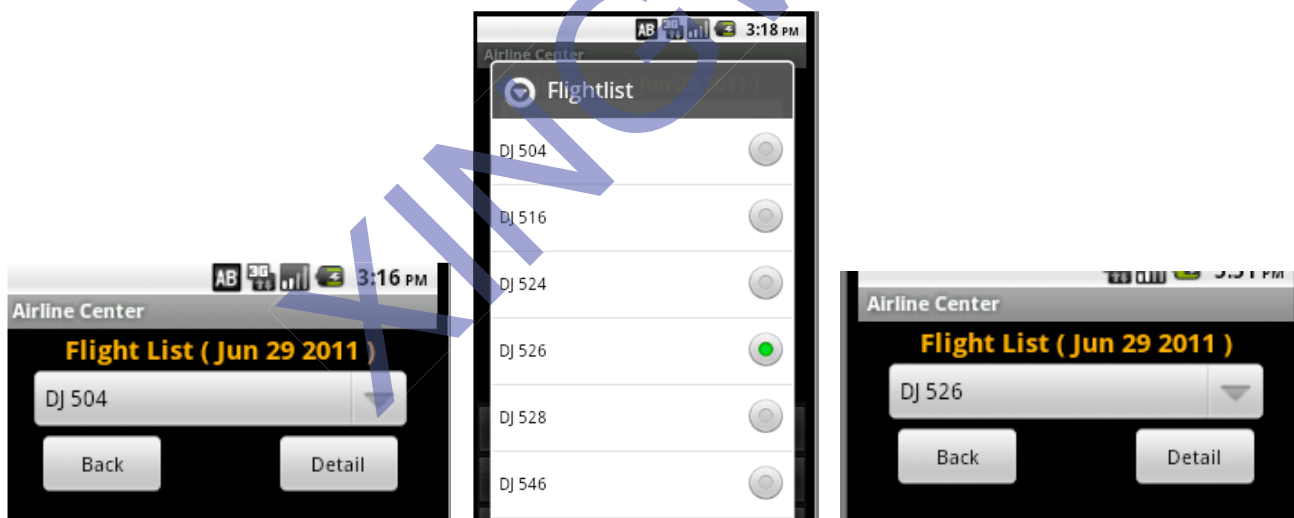
##### Description

This form will display search result of the flight list based on the date that the user selects before.

##### GUI Design



Depart date is Jun 28 2011, select1 get Error result



Flight list view (select 2 result)

Select Flight

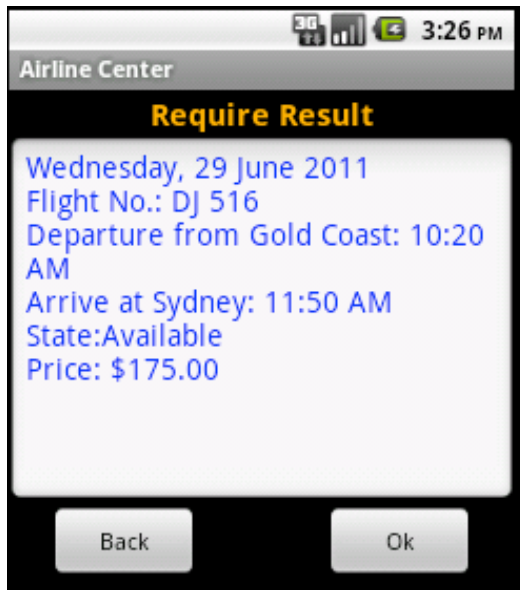
Back view

#### Screen #5 – Show Detail

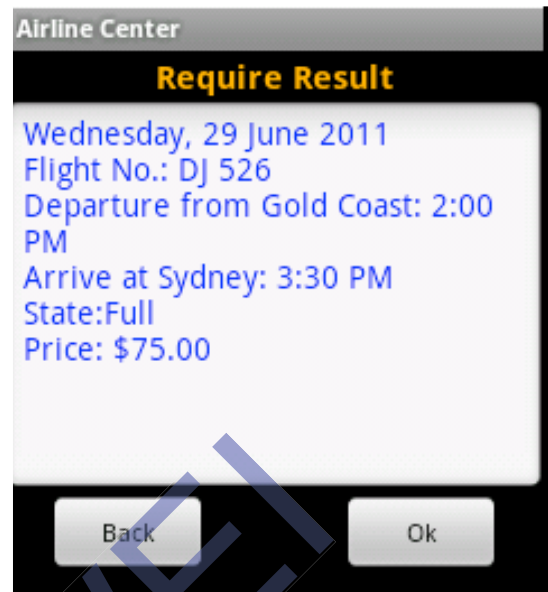
##### Description

This form is displayed when the user selects the 'Detail' option in the previous form. It simply displays all the flight details for the selected flight. The user can then see the detail of the flight, which includes the date, flight No., departure and arrival time, seat state, and price.

## GUI Design



Available



Full

### 3 Database Design

The database used is MySQL. The database has been called airline and consists of an “ALGS” table and “depart\_date” table. The structure of both tables and some sample data are showed below.

#### Database Structure

```
Create database airline;
use airline;
// the ALGS is a airline from Gold Coast to Sydney
```

```
mysql> show tables;
```

Tables_in_airline
ALGS
depart_date

```
mysql> describe depart_date;
```

Field	Type	Null	Key	Default	Extra
Id	int(11)	NO	PRI	NULL	auto_increment
date	date	NO	PRI	0000-00-00	

```
mysql> describe ALGS;
```

Field	Type	Null	Key	Default	Extra
Id	int(11)	NO	PRI	NULL	auto_increment
Departs_time	time	YES		NULL	
Arrives_time	time	YES		NULL	
Flight	varchar(10)	YES		NULL	
State	tinyint(1)	YES		NULL	
Price	float(5,2)	YES		NULL	
Date	date	YES	MUL	NULL	

#### Sample data value

```
mysql> select * from depart_date;
```

Id	date
1	2011-06-25
2	2011-06-26
3	2011-06-29

```
mysql> select * from ALGS;
```

Id	Departs_time	Arrives_time	Flight	State	Price	Date
1	06:00:00	07:30:00	DJ 500	0	75.00	2011-06-25
2	09:05:00	10:35:00	DJ 512	1	119.00	2011-06-25
3	11:30:00	13:00:00	JQ 409	1	127.00	2011-06-25
4	17:35:00	19:00:00	TT8763	1	123.35	2011-06-25
5	12:30:00	14:00:00	DJ 524	1	315.00	2011-06-26
6	13:55:00	15:25:00	DJ 526	0	175.00	2011-06-26
7	15:00:00	16:30:00	DJ 528	0	75.00	2011-06-26
8	18:00:00	19:30:00	DJ 540	1	175.00	2011-06-26
9	20:00:00	21:30:00	DJ 546	0	75.00	2011-06-26
10	07:00:00	08:30:00	DJ 504	1	75.00	2011-06-29
11	10:20:00	11:50:00	DJ 516	1	175.00	2011-06-29
12	13:00:00	14:30:00	DJ 524	1	315.00	2011-06-29
13	14:00:00	15:30:00	DJ 526	0	75.00	2011-06-29
14	15:00:00	14:30:00	DJ 528	1	75.00	2011-06-29
15	17:00:00	18:30:00	DJ 528	0	175.00	2011-06-29
16	22:00:00	23:30:00	DJ 546	1	75.00	2011-06-29

```
//airline.sql is a database file of MySQL
```

```
//import database
```

```
//go to airline.sql folder
```

```
sudo cp Android_airline.sql /var/lib/mysql
```

```
sudo chmod 660 /var/lib/mysql/Android_airline.sql
```

```
mysql -u root -p
```

```
mysql>create database airline;
```

```
mysql>use airline;
```

```
mysql>mysql -u root -p airline < Android_airline.sql;
```

```
//export database R is export all value from table not just scheme of database
```

```
cd /usr/bin
```

```
mysqldump -u root -p airline -R > /path/Android_airline.sql
```



## 4 Android Code

```
//AirlineCenter.java

//this class is use Web Server, HTTPconnect to PHP script test and return data from
database airline;
//First list all Flight of Date which use select, then show the detail of Flight No.
which is particular choice.

package au.edu.bond.Androidtask2;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.Stack;

import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;

public class AirlineCenter extends Activity {
    global variables
    // url address for the server script
    String url;
    // type to show the different steps of searching.
    // value 0: the first step to search Flight list. 1: searching detail
    Flight No.
    int type;

    //get selectdate
    String datestr;
    //get select flight;
    String flightstr;
    //get result from web servers
    String server;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        Main();
    }
    // function Initialization global variables
    public void Initialization(){
        // init url
```

```

url = "http://10.0.2.2/test.php";
// type to show the different steps of searching.
// value 0: the first step to search Flight list. 1: searching detail
Flight No.
type=2;
//init date
datestr="";
//init flight list;
flightstr="";
//init server result
server="";
}
public void Main(){
    setContentView(R.layout.main);

    //Initialization global variables
    Initialization();
    //select date
    Spinner spinner = (Spinner) findViewById(R.id.SpinnerDate);
    ArrayAdapter<CharSequence> adapter = ArrayAdapter.createFromResource(
        this, R.array.DepartDate, android.R.layout.simple_spinner_item);

    adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
    spinner.setAdapter(adapter);
    type = 0; //type of Spinner
    spinner.setOnItemClickListener(new MyOnItemSelectedListener());

    //Button Exit project
    Button Exit = (Button) findViewById(R.id.exit);
    Exit.setOnClickListener(new OnClickListener(){
        public void onClick(View v){
            finish();
        }
    });

    //Button go Flightlist.
    Button Flightlist = (Button) findViewById(R.id.flightlist);
    Flightlist.setOnClickListener(new OnClickListener(){
        public void onClick(View v){
            //new url
            url=generateGetUrl(url,datestr,flightstr);

            //get result to web server
            server = getHttpResponse(url);
            //check server result
            if(server.equals("none\n")){
                //if can't find flightNo. of require date,
                // go to Error view
                Error();}
            else{
                //go toFlightlist view
                Flightlist();
            }
        }
    });
}

```

```

}
//function get select result from spinner;
public class MyOnItemSelectedListener implements OnItemSelectedListener {

    public void onItemSelected(AdapterView<?> parent,
        View view, int pos, long id) {

        switch (type){
            case 0://get select depart date
                Toast.makeText(parent.getContext(), "The flight depart date
is " +
                parent.getItemAtPosition(pos).toString(),
Toast.LENGTH_LONG).show();
                datestr =
parent.getItemAtPosition(pos).toString();
                break;
            case 1://get select flightNo.
                Toast.makeText(parent.getContext(), "The flight number is "
+
                parent.getItemAtPosition(pos).toString(),
Toast.LENGTH_LONG).show();
                flightstr = parent.getItemAtPosition(pos).toString();
                break;
        }

    }

    public void onNothingSelected(AdapterView parent) {
        // Do nothing.
    }
}

//flight view
public void Flightlist() {
    //load view
    setContentView(R.layout.flightlist);
    //reset tile by departdate
    TextView title= (TextView)findViewById(R.id.fltitle);
    title.setText(title.getText()+" ( "+datestr+" )");
    //get flight array form from server
    char delim = '-';
    String[] flight_arr = split(server, delim, false);
    //get Flightlist
    Spinner FlightNumber = (Spinner) findViewById(R.id.spinner1);
    ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,
android.R.layout.simple_spinner_item, flight_arr);// give list to spinner

    adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_i
tem);
}

```

```

        FlighNumber.setAdapter(adapter);
        type = 1; //set type flag for Spinner
        FlighNumber.setOnItemClickListener(new MyOnItemSelectedListener());

        //button back: back to main view
        Button Back = (Button) findViewById(R.id.rollback);
        Back.setOnClickListener(new OnClickListener(){
            public void onClick(View v){
                Main();
            }
        });

        //button detail: go to require result view
        Button Detail = (Button) findViewById(R.id.godetail);
        Detail.setOnClickListener(new OnClickListener(){
            public void onClick(View v){
                url=generateGetUrl(url,datestr,flightstr);
                Detail();
            }
        });

    }
    //flight detail view
    public void Detail(){
        //load view
        setContentView(R.layout.detail);

        //get element id in detail layout
        TextView Content =(TextView)findViewById(R.id.flightcontent);
        Content.setText(getHttpResponse(url));

        //back flight list
        Button backflight = (Button)findViewById(R.id.backflight);
        backflight.setOnClickListener(new OnClickListener(){
            public void onClick(View v){
                Flightlist();
            }
        });

        // destroy view
        Button Ok = (Button) findViewById(R.id.ok);
        Ok.setOnClickListener(new OnClickListener(){
            public void onClick(View v){
                finish();
            }
        });
    }

    //error view
    public void Error(){
        setContentView(R.layout.error);
        //set error msg to textview
        TextView err_msg = (TextView)findViewById(R.id.errorcontent);
    }

```

```
err_msg.setText("Waring! It doesn't have any Flight on " + datestr + ".  
Please select new depart date.");
```

```
//our error page
```

```
Button outerr = (Button)findViewById(R.id.outerror);
```

```
outerr.setOnClickListener(new OnClickListener(){
```

```
    public void onClick(View v){
```

```
        Main();
```

```
    }
```

```
});
```

```
}
```

```
// Function that formats the url string coding (IE %20 for spaces)
```

```
// it takes three arguments, url, a date, and searching key value
```

```
public String generateGetUrl(String url, String da, String k)
```

```
{
```

```
    String newUrl = new String();
```

```
    StringBuffer c = new StringBuffer("?d=" + da + "&k=" + k);
```

```
    for(int i=0; i<c.length(); i++)
```

```
    {
```

```
        if(c.charAt(i)==' ')
```

```
        {
```

```
            c = c.insert(i,"%20");
```

```
            c = c.deleteCharAt(i+3);
```

```
        }
```

```
    }
```

```
    newUrl = url + c.toString();
```

```
    return newUrl.toString();
```

```
}
```

```
//function to split a string to a string list it takes 3 arguments, toSplit:  
string for splitting,
```

```
//delim: special char, like '-' using here. ignoreEmpty: boolean argument
```

```
//return a string list
```

```
public static String[] split(String toSplit,char delim,boolean ignoreEmpty)
```

```
{
```

```
    StringBuffer buffer = new StringBuffer();
```

```
    Stack<String> stringStack = new Stack<String>();
```

```
    for(int i = 0;i<toSplit.length();i++)
```

```
    {
```

```
        if(toSplit.charAt(i) != delim)
```

```
        {
```

```
            buffer.append((char)toSplit.charAt(i));
```

```
        }
```

```
    } else
```

```
    {
```

```
        if(buffer.toString().trim().length() == 0 && ignoreEmpty)
```

```
        {
```

```
        }
```

```
    } else
```

```
    {
```

```
        stringStack.addElement(buffer.toString());
```

```
    }
```

```
    buffer = new StringBuffer();
```

```

    }
}
if(buffer.length() != 0)
    stringStack.addElement(buffer.toString());
String [] split = new String[stringStack.size()];
for(int i = 0;i<split.length;i++)
{
    split[split.length-1-i] = (String)stringStack.pop();
}
stringStack = null;
buffer = null;
// return the split string list
return split;
}

//connect to server return result
private String getHttpResponse (String s){
    String result = ""; // store result after httprequires
    URL url = null;
    try {
        url = new URL(s);
    } catch (MalformedURLException e){}
    if(url!=null){
        try
        {
            HttpURLConnection urlConn =
(HttpURLConnection)url.openConnection();
            BufferedReader in = new BufferedReader(new
InputStreamReader(urlConn.getInputStream()));
            String inputLine;
            int lineCount = 0;
            while( (lineCount<10) && ((inputLine = in.readLine())!=null))
            {
                lineCount++;
                result += inputLine + "\n";
            }
            in.close();
            urlConn.disconnect();

        }
        catch (IOException e){}
    }
    else
    { result = null;}
    return result;
}

}

//layout
//string.xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="hello">Welcome to Airline E-Ticker Server</string>
    <string name="app_name">Airline Center</string>

```

```

<string name="Ok">Ok</string>
<string name="flightNo.">Flightlist</string>
<string name="flightdetail">Detail</string>
<string name="back">Back</string>
<string name="exit">Exit</string>
<string-array name="DepartDate">
    <item>Jun 25 2011</item>
    <item>Jun 26 2011</item>
    <item>Jun 27 2011</item>
    <item>Jun 28 2011</item>
    <item>Jun 29 2011</item>
    <item>Aug 6 2011</item>
</string-array>
<string name="SelectDate">DepartDate</string>
<color name="warning">#ff0000</color>
<color name="fdetail">#0000ff</color>
<color name="Title">#ffa500</color>
</resources>

```

```

//main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_height="wrap_content" android:layout_width="wrap_content">
<TextView android:text="@string/hello"
    android:gravity="center"
    android:layout_width="match_parent"
    android:layout_height="33dp"
    android:textSize="16dp"
    android:textColor="@color/Title"></TextView>
<TableLayout android:id="@+id/tableLayout1" android:layout_width="318dp"
android:layout_height="462dp" android:weightSum="1">
    <TableRow android:id="@+id/tableRow1" android:layout_weight="0.10"
android:layout_width="wrap_content" android:layout_height="0dp">
        <TextView android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:textStyle="bold"
            android:text="From:"
            android:textSize="22dp"
            android:id="@+id/from"
            android:layout_marginRight="12dp"
            android:layout_width="0dp"
            android:layout_weight="1"
            android:gravity="center"
            android:layout_marginLeft="10dp"/>
        <EditText android:layout_height="wrap_content"
            android:layout_width="0dp"
            android:contentDescription="Departs"
            android:id="@+id/Departs"
            android:paddingRight="8dp"
            android:text="Gold Coast"
            android:textSize="20dp"
            android:typeface="normal"
            android:gravity="center"
            android:textStyle="normal"

```

```

        android:layout_gravity="center_vertical|right"
        android:layout_marginRight="15dp"
        android:layout_weight="3"
        android:textColor="@color/fdetail">
    </EditText>
</TableRow>
<TableRow android:id="@+id/tableRow2" android:layout_weight="0.10"
android:layout_height="0dp" android:layout_width="match_parent">
    <TextView android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:textStyle="bold"
        android:text="To:"
        android:textSize="24dp"
        android:paddingRight="8dp"
        android:id="@+id/to"
        android:layout_marginRight="10dp"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:gravity="center"
        android:layout_marginLeft="10dp"></TextView>
    <EditText android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:contentDescription="Arrives"
        android:id="@+id/Arrives"
        android:text="Sydney"
        android:textSize="20dp"
        android:typeface="normal"
        android:gravity="center"
        android:textStyle="normal"
        android:layout_gravity="center_vertical|right"
        android:layout_marginRight="15dp"
        android:layout_weight="4"
        android:textColor="@color/fdetail">
    </EditText>
</TableRow>
<TableRow android:layout_height="wrap_content"
android:layout_width="wrap_content" android:id="@+id/tableRow3">
    <TextView android:textStyle="bold"
        android:textSize="20dp"
        android:id="@+id/TextView01"
        android:layout_marginLeft="10dp"
        android:gravity="center"
        android:layout_weight="1"
        android:layout_width="wrap_content"
        android:layout_gravity="center"
        android:layout_height="wrap_content"
        android:layout_marginRight="4dp"
        android:text="@string/SelectDate"/>
    <Spinner android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:id="@+id/SpinnerDate"
        android:prompt="@string/SelectDate"
        android:textSize="20dp"
        android:layout_weight="1"/>

```



```

</TableRow>
<TableRow android:id="@+id/tableRow4" android:layout_weight="0.10"
android:layout_width="wrap_content" android:layout_height="0dp"
android:layout_marginRight="2dp" android:layout_marginLeft="2dp">
    <Button android:id="@+id/exit"
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:textStyle="bold"
        android:textSize="16dp"
        android:layout_marginRight="70dp"
        android:gravity="center"
        android:layout_gravity="center|left"
        android:layout_marginLeft="20dp"
        android:text="@string/exit"></Button>
    <Button android:id="@+id/flightlist"
        android:text="@string/flightNo."
        android:gravity="center"
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:textSize="16dp"
        android:textStyle="bold"
        android:typeface="normal"
        android:layout_gravity="center"
        android:layout_marginRight="20dp"></Button>

</TableRow>
</TableLayout>
</LinearLayout>

//flightlist.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_height="wrap_content" android:layout_width="wrap_content">
    <TextView android:text="Flight List"
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:gravity="center"
        android:textSize="20dp"
        android:textStyle="bold"
        android:textColor="@color/Title"
        android:id="@+id/fltitle"></TextView>
    <Spinner android:layout_height="wrap_content"
        android:id="@+id/spinner1"
        android:layout_gravity="center"
        android:gravity="center"
        android:layout_width="280dp"
        android:layout_marginLeft="25dp"
        android:layout_marginRight="25dp"
        android:prompt="@string/flightNo."></Spinner>
    <TableRow android:id="@+id/tableRow1" android:layout_height="wrap_content"
        android:layout_width="match_parent" android:layout_gravity="bottom">
        <Button android:id="@+id/rollback"
            android:layout_height="wrap_content"

```

```

        android:layout_weight="1"
        android:layout_width="0dp"
        android:gravity="center"
        android:layout_marginLeft="25dp"
        android:layout_marginRight="40dp"
        android:text="@string/back"></Button>
<Button android:id="@+id/godetail"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:layout_width="0dp"
        android:gravity="center"
        android:layout_marginRight="25dp"
        android:layout_marginLeft="40dp"
        android:text="@string/flightdetail"></Button>
</TableRow>
</LinearLayout>

```

//detail.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_height="wrap_content"
    android:layout_width="wrap_content">
    <TextView android:id="@+id/textView1"
        android:text="Require Result"
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:gravity="center"
        android:textStyle="bold"
        android:textSize="20dp"
        android:textColor="@color/Title"></TextView>
    <EditText android:id="@+id/flightcontent"
        android:text = "hello"
        android:inputType="textMultiLine"
        android:layout_width="320dp"
        android:gravity="fill_horizontal"
        android:textStyle="normal"
        android:textSize="18dp"
        android:layout_height="wrap_content"
        android:textColor="@color/fdetail">
    </EditText>
    <TableRow android:id="@+id/tableRow1"
        android:layout_gravity="bottom"
        android:layout_height="wrap_content"
        android:layout_width="match_parent">
        <Button android:layout_marginRight="40dp"
            android:id="@+id/backflight"
            android:layout_width="0dp"
            android:text="@string/back"
            android:layout_height="wrap_content"
            android:gravity="center"
            android:layout_weight="1"
            android:layout_marginLeft="25dp"></Button>
        <Button android:layout_marginRight="25dp"

```

```

        android:id="@+id/ok"
        android:layout_width="0dp"
        android:text="@string/Ok"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:layout_weight="1"
        android:layout_marginLeft="40dp"></Button>
    </TableRow>
</LinearLayout>

//error.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_height="wrap_content" android:layout_width="wrap_content">
    <TextView android:id="@+id/textView1"
        android:text="Error message"
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:gravity="center"
        android:textStyle="bold"
        android:textSize="20dp"
        android:textColor="@color/Title"></TextView>
    <EditText android:id="@+id/errorcontent"
        android:inputType="textMultiLine"
        android:layout_width="320dp"
        android:gravity="fill_horizontal"
        android:textStyle="normal"
        android:textSize="20dp"
        android:layout_height="wrap_content"
        android:textColor="@color/warning">
    </EditText>
    <Button android:layout_width="wrap_content"
        android:id="@+id/outerror"
        android:layout_height="wrap_content"
        android:text="@string/back"></Button>
</LinearLayout>

```

## 5 PHP Script Code

```
<?php
//test.php
//get value from url and search by date and Flight NO. to get a line date from
database airline table ALGS

//config
$username = "root";
$password = "password";
$hostname = "127.0.0.1";

// get query from user

// date value
$q_date = "";
// key value for Flight No.
$q_FNo = "";
// query
$q = "";

if (isset($_GET)) {
    $q_date = ($_GET["d"] != "" ? date("Y-m-d", strtotime($_GET["d"])) : date("Y-m-d
H:i")); //date
    $q_FNo = $_GET["k"]; //keyword
}

// if there is Flight No. key value, it will search the flight available time
schedule
// giving the date and the Flight No.
// table ALGS(Airline Gold Coast to Sydney) from database airline
if ($q_FNo != ""){
    $q = "SELECT Id,date_format(Departs_time, '%l:%i %p') as DTime,
date_format(Arrives_time, '%l:%i %p') as ATime,
    Flight, State, Price, date_format(Date, '%W, %Y %M %d') as FDate FROM ALGS
where date_format(Date, '%Y-%m-%d') = '". $q_date.'" and Flight = '". $q_FNo.'" Order
by Flight, Date Asc ";

}

// search for the Flight list giving the date
else
{
    $q = "SELECT distinct Flight FROM ALGS where date_format(Date, '%Y-%m-%d') =
'". $q_date.'" Order by Flight Asc ";
}

//connection to the database
$dbhandle = mysql_connect($hostname, $username, $password)
or die("Unable to connect to MySQL");

//select a database airline to work with
```

```

$selected = mysql_select_db("airline",$dbhandle)
    or die("Could not select airline");

//checkdate date
$datecheck = mysql_query("select date from depart_date where date_format(Date,
'%Y-%m-%d') = '". $q_date."'");
$count = mysql_num_rows($datecheck);
if ($count == 0)//doesn't find departdate in database
    echo "none";
else//execute the SQL query and return records
    $result = mysql_query($q);

//fetch the data from the database
//format
//Date: Friday, 22 July 2011
//Flight No. QL 789
//Departure from Gold Coast: 8:00 am
//Arrival at Sydney: 9:30 am
//State: Available
//Price: $95
while ($row = mysql_fetch_array($result)) {
    // return the Flight detail if no Flight NO key value
    if ($q_FNo != ""){
        echo $row{'FDate'}."\n". //display the results
        "Flight No.: ".$row{'Flight'}."\n".
        "Departure from Gold Coast: ".$row{'DTime'}."\n".
        "Arrive at Sydney: ".$row{'ATime'}."\n".
        "State:".($row{'State'} ? "Available" : "Full")."\n".
        "Price: ".$row{'Price'}.\n\n";
    }
    else // return the Flight list
    {
        echo $row{'Flight'}."-";
    }
}

//close the connection
mysql_close($dbhandle);
?>

```