ANDROID CALENDAR

Team-1

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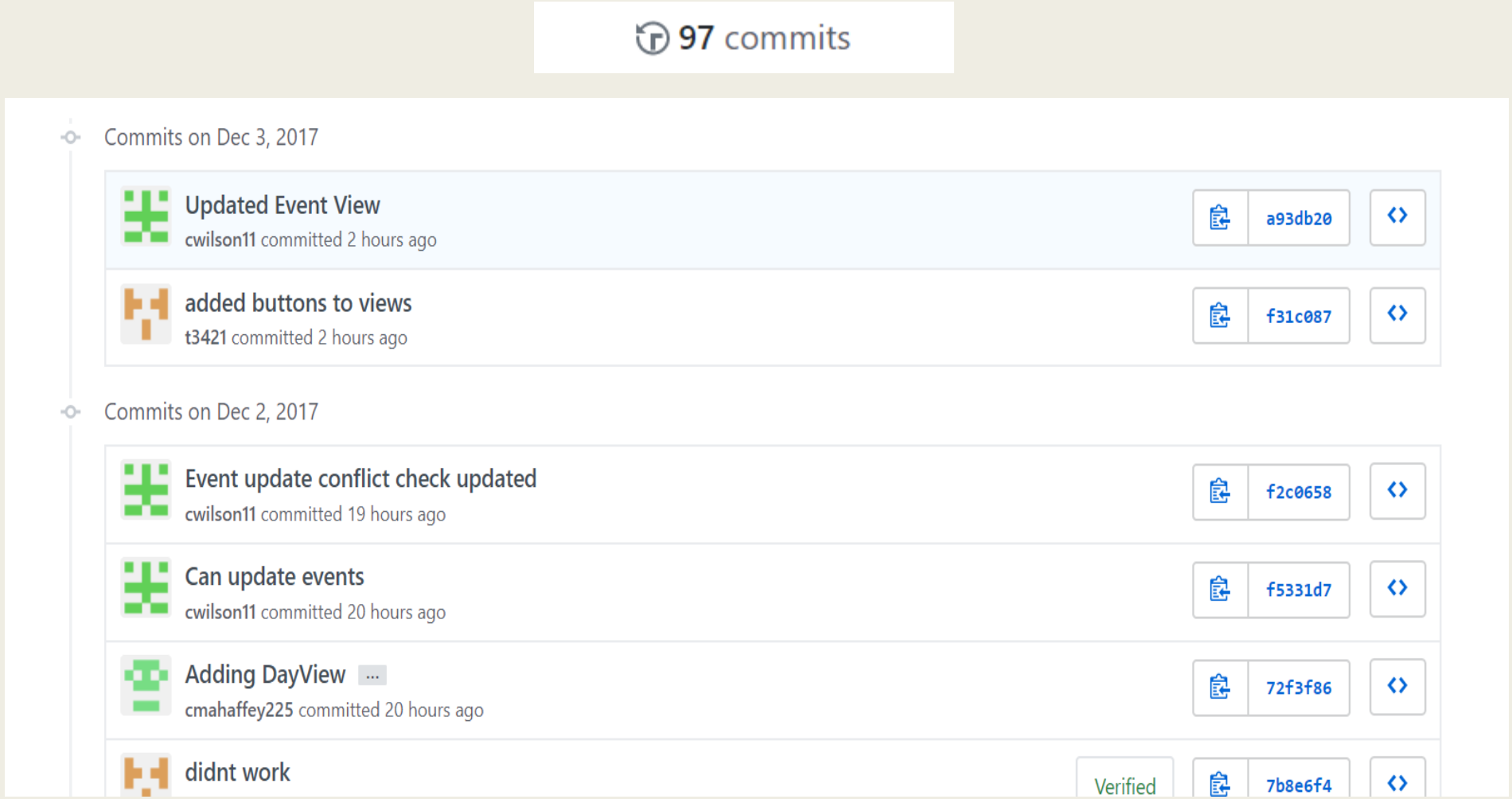
Project Demo

- View events
  - *Monthly*
  - *Daily*
  - *Agenda*
- Add event
  - *Single*
  - *Weekly*
  - *Monthly*
- Edit event
  - *Change date*
  - *Change time*
  - *Change occurrence*
- Delete event

Commits


97 commits
Commits on Dec 3, 2017
Updated Event View
cwilson11 committed 2 hours ago
a93db20
added buttons to views
t3421 committed 2 hours ago
f31c087
Commits on Dec 2, 2017
Event update conflict check updated
cwilson11 committed 19 hours ago
f2c0658
Can update events
cwilson11 committed 20 hours ago
f5331d7
Adding DayView
cmahaffey225 committed 20 hours ago
72f3f86
didnt work
Verified
7b8e6f4

Insight

November 3, 2017 – December 3, 2017

Period: 1 month

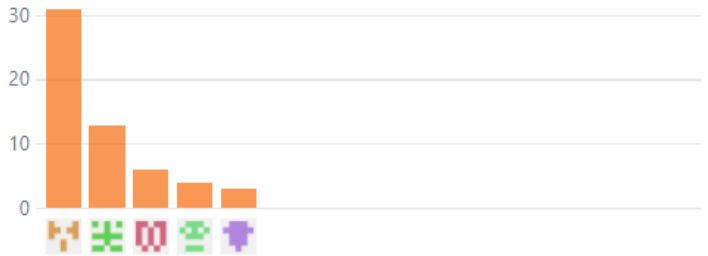
Overview

2 Active Pull Requests

0 Active Issues

2 Merged Pull Requests	**0** Proposed Pull Requests	**0** Closed Issues	**0** New Issues

Excluding merges, **5 authors** have pushed **55 commits** to master and **57 commits** to all branches. On master, **406 files** have changed and there have been 6,901 **additions** and 0 **deletions**.



2 Pull requests merged by **2** people

Merged #9 **Views** 19 days ago

Merged #7 **Add main add code** 27 days ago

Team Organization

- Team meetings
  - *Meetings occurred after each class for updates*
  - *Once a month longer meetings pertain to the project*
  - *Communicated by text or in person*
- Task distribution
  - *Appointment of task by group discussion and skill level*

Coding Style and Comments

Link - http://www.oracle.com/technetwork/java/javase/documentation/codeconvtoc-136057.html

- We tried to stick to the code convention linked above for oracle
- Camel case style
- Comments in code are used on a as needed basis for inside methods
  - *Methods should all be commented on for use in Java Docs*
  - *Statements that need clarification or more guidance*
  - *Classes should all be commented on for use in Java Docs*

```
/**
 * Checks for error within the user input such as long comment or title along with missing
 * needed items to add in the event
 *
 * @param startMinute the start minute must be assigned
 * @param startHour the start hour must be assigned
 * @param endMinute the end minute must be assigned
 * @param endHour   the end hour must be assigned
 * @param startDay  checking the day is not 0
 * @param eventTitle must be checked for for >0 and <64 characters
 * @param eventComments must be checkd for <256 characters
 * @return returns true if no errors are found, false is at least one is found
 */
public boolean Noerrors(int startMinute , int startHour, int endMinute, int endHour,
                        int startDay, String eventTitle, String eventComments){

    if(startMinute == 0 && startHour == 0 || endMinute == 0 && endHour == 0 || startDay == 0 ||
            eventTitle.length()==0 || eventTitle.length()>32 || eventComments.length()>256){

        StringBuilder errors =new StringBuilder();
        if ( eventComments.length()>256){errors.append("comment length,");}      //Check comments
        if ( eventTitle.length() == 0 || eventTitle.length()>32){errors.append
                ("event title length, ");}                                        //Check blank title
        if ( startMinute == 0 && startHour == 0){errors.append("start time, ");}//Check start time
        if ( endMinute == 0 && endHour == 0){errors.append("end time, ");}       //Check end time
        if ( startDay == 0){errors.append("start Date, ");}                      //Check blank date
        Toast.makeText(getBaseContext(), text: " Please correct the error/s " +
                errors, Toast.LENGTH_LONG).show();                               //push message
        return false;
    }
    return true;
```

Design Pattern

Adapter Pattern

- EventView adapts AppCompatActivity to give the database a usable interface

```
public class EventView extends AppCompatActivity {
    int startY = 0, startM = 0, startD = 0, startH = 0, startMi = 0, endH = 0, endM = 0, returnToView=0;
    String occurrenceId, eventId, extraId, color;
    private int id = 0;
    private int occurrenceCheck = 0;
    EventsDb db = new EventsDb(this);
    Event event = new Event();

    /**
     * gets data from intent for results on the edit events button
     *
     * @param requestCode checks code for the correct number 1 or 2
     * @param resultCode checks results for RESULTS_OK or CANCEL_RESULTS
     * @param data all items passed via intent
     */
    public void onActivityResult(int requestCode, int resultCode, Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        //if(requestCode == 2 && requestCode == RESULT_OK)
        //Toast.makeText(getBaseContext(),startMinute + endMinute +startHour + endHour + startDay + startYear, Toast.LENGTH_LONG).show();

        if (requestCode == 2 && resultCode == RESULT_OK) {
            eventId = data.getStringExtra("eventTitle");
            startY = data.getIntExtra("startYear", 0);
            startM = data.getIntExtra("startMonth", 0);
            startD = data.getIntExtra("startDay", 0);
            startH = data.getIntExtra("startHour", 0);
            startMi = data.getIntExtra("startMinute", 0);
            endH = data.getIntExtra("endHour", 0);
            endM = data.getIntExtra("endMinute", 0);
            occurrenceId = data.getStringExtra("occurrence");
            extraId = data.getStringExtra("extraComments");
            color = data.getStringExtra("colorSelected");

            setData(startY, startM, startD, startH, startMi, endH, endM, occurrenceId, eventId,
                    extraId, color);
```

Refactoring

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Before

```
                startHour = data.getIntExtra("selectedHour", 0);
                startMinute = data.getIntExtra("selectedMinute", 0);
-               boolean isValid = validate(startHour , startMinute , endHour , endMinute);
-               if (isValid){
+               if (validate(startHour , startMinute , endHour , endMinute)){
                    Toast.makeText(getBaseContext(),"hour = " + startHour + " minute = " + startMinute , Toast.LENGTH_LONG).show();
-                   modifiedStartHour = startHour;
-                   if ( startHour > 12 ){
-                       modifiedStartHour = startHour - 12;
-                       ampm = "PM";
-                   }
-                   else if (startHour == 0){startHour=+1;}
-                //   String modifiedStartMinute =  String.format("%02d", startMinute);
-                   ((TextView)findViewById(R.id.start_time_display)).setText(modifiedStartHour + ":" + String.format("%02d" ,startMinu
+                   ((TextView)findViewById(R.id.start_time_display)).setText(getTimeString(startHour , startMinute));
                }
                else{
                    startHour = transH;
@@ -63,14 +54,7 @@ public void onActivityResult(int requestCode, int resultCode, Intent data) {
                boolean isValid = validate(startHour , startMinute , endHour , endMinute);
                if (isValid){
                    Toast.makeText(getBaseContext(),"hour = " + endHour + " minute = " + endMinute , Toast.LENGTH_LONG).show();
-                   modifiedEndHour = endHour;
-                   if ( endHour > 12 ){
-                      modifiedEndHour = endHour - 12;
-                     ampm = "PM";
-                   }
-                   else if (endHour == 0){endHour=+1;}
-                //     String modifiedEndMinute =  String.format("%02d", endMinute);
-                   ((TextView)findViewById(R.id.end_time_display)).setText(modifiedEndHour + ":" +   String.format("%02d", endMinute)
+                   ((TextView)findViewById(R.id.end_time_display)).setText(getTimeString(endHour , endMinute));
                }
```

After

```
/**...*/
public boolean validate(int startH , int startM , int endH , int endM) {
return (((startH == 0 && startM == 0) || (endH == 0 && endM == 0))||((startH < endH)||
        ((startH == endH) && (startM < endM ))));
```

Testing

```java
import org.junit.Before;
import org.junit.Test;
import static org.junit.Assert.*;

public class AddEventTest {

    private AddEvent tester;

    @Before
    public void setUp() throws Exception {
        tester = new AddEvent();
    }

    @Test
    public void getDateString() throws Exception {
        assertEquals( expected: "1 January 2017" , tester.getDateString( year: 2017, month: 1, day: 1));
        assertEquals( expected: "31 November 2017" , tester.getDateString( year: 2017, month: 11, day: 31));
        assertEquals( expected: "" , tester.getDateString( year: 0, month: 1, day: 1));
        assertEquals( expected: "" , tester.getDateString( year: 2017, month: 1, day: 0));
    }

    @Test
    public void validate() throws Exception {
        assertEquals( expected: true , tester.validate( startH: 0, startM: 0, endH: 12, endM: 30));
        assertEquals( expected: true , tester.validate( startH: 24, startM: 0, endH: 24, endM: 1));
        assertEquals( expected: true , tester.validate( startH: 12, startM: 30, endH: 0, endM: 0));
        assertEquals( expected: false , tester.validate( startH: 12, startM: 0, endH: 11, endM: 1));
    }

    @Test
    public void getTimeString() throws Exception {
        assertEquals( expected: "" , tester.getTimeString( hour: 0, minute: 0));
        assertEquals( expected: "12:00 PM" , tester.getTimeString( hour: 12, minute: 0));
        assertEquals( expected: "12:30 AM" , tester.getTimeString( hour: 0, minute: 30));
        assertEquals( expected: "9:01 PM" , tester.getTimeString( hour: 21, minute: 1));
    }

    @Test
    public void getSpinnerPosition() throws Exception {
        assertEquals( expected: 0 , tester.getSpinnerPosition( color: ""));
        assertEquals( expected: 0 , tester.getSpinnerPosition( color: "Yellow"));
        assertEquals( expected: 1 , tester.getSpinnerPosition( color: "Fuchsia"));
        assertEquals( expected: 2 , tester.getSpinnerPosition( color: "Red"));
        assertEquals( expected: 3 , tester.getSpinnerPosition( color: "Green"));
        assertEquals( expected: 4 , tester.getSpinnerPosition( color: "Purple"));
        assertEquals( expected: 5 , tester.getSpinnerPosition( color: "Blue"));
        assertEquals( expected: 6 , tester.getSpinnerPosition( color: "Maroon"));
        assertEquals( expected: 7 , tester.getSpinnerPosition( color: "Teal"));
    }
}
```

Test for add event class