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Introduction:

 To introduce about android calendar elements and using those elements in the given projects

Programming Elements:

- Android Studio
- Google-android calendar

Objective:

- The main objective of this ICP is to create Calendar application in android device
- Create an event using this calendar
- Display the Event
- Providing mail to the guest about event details

Workflow-Approaches:

- It has two activities
- 1. Calendar Activity
- 2. Main Activity
- Calendar activity is used to create calendar using calendar elements in android
- Usually it displays the current date when you open
- User will create an event on any date by clicking on the create event
- After selecting dates for any event, the page will navigate to main activity



- Main activity has button to display the event and it has guest mail ID to send mail about event details.
- User can strike the event if he is not having interest to go to the event.
- Corresponding code snippets for Calendar Activity and Main activity are given below.
- Generated APK file
- Calendar Activity

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   setContentView(R.layout.activity calendar);
   Button butinsert = (Button) findViewById(R.id.createEvent);
   butinsert.setOnClickListener((v) → { insert(); });
   // Fetching View by Id's
    simpleCalendarView = (CalendarView) findViewById(R.id.simpleCalendarView);
   dateView = (TextView) findViewById(R.id.dateView);
   // Showing Current Date First on Page Load
    SimpleDateFormat sdf = new SimpleDateFormat ( pattern: "dd/MM/yyyy");
   String selectedDate = sdf.format(new Date(simpleCalendarView.getDate()));
   // Setting to text view
   dateView.setText("Date: "+selectedDate);
   // On Change of Date
    simpleCalendarView.setOnDateChangeListener((view, year, month, dayOfMonth) → {
            // Setting TextView by Day, month, year
            dateView.setText("Date: "+dayOfMonth+"/"+month+"/"+year);
            monthString = month;
           yearString = year;
            dayString = dayOfMonth;
   1);
```



Guest Details and date format

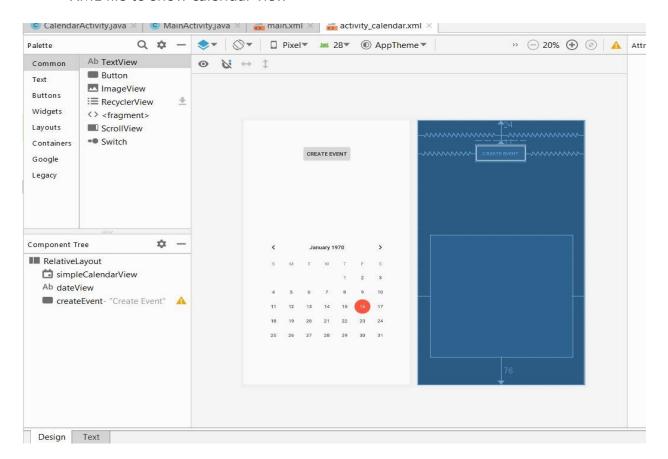
```
public void insert() {
   Intent intent = new Intent(Intent.ACTION_INSERT,
            CalendarContract.Events.CONTENT URI);
    // Add the calendar event details
    intent.putExtra(CalendarContract.Events.TITLE, value: "Scrum Meeting");
    intent.putExtra(CalendarContract.Events.DESCRIPTION,
             value: "Learn Web & Mobile Programming");
    intent.putExtra (CalendarContract.Events. EVENT LOCATION,
             value: "UMKC.com");
    Calendar startTime = Calendar.getInstance();
    // Set the Start time of Calendar
    Calendar startDate = Calendar.getInstance();
    startDate.set(Calendar.MONTH, monthString);
    startDate.set(Calendar.YEAR, yearString);
startDate.set(Calendar.DAY_OF_MONTH, dayString);
    startDate.set(Calendar.HOUR_OF_DAY, 14);
    startDate.set(Calendar.MINUTE, 0);
    // Set the end time of calendar
    Calendar endDate = Calendar.getInstance();
    endDate.set(Calendar.MONTH, monthString);
    endDate.set(Calendar.YEAR, yearString);
endDate.set(Calendar.DAY_OF_MONTH, dayString);
    endDate.set(Calendar.HOUR OF DAY, 17);
    endDate.set(Calendar.MINUTE, 0);
    startTime.set(yearString, monthString, dayString);
    intent.putExtra (CalendarContract. EXTRA EVENT BEGIN TIME,
            startDate.getTimeInMillis());
    //intent.putExtra(CalendarContract.EXTRA EVENT ALL DAY, true);
    intent.putExtra(CalendarContract.EXTRA EVENT END TIME, endDate.getTimeInMillis());
    intent.putExtra(Intent.EXTRA EMAIL, value: "lakshmankumarmettu@qmail.com");
```

Main Activity

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
    Button disp = (Button) findViewById(R.id.dispbut);
disp.setOnClickListener((v) \rightarrow {
                TODO Auto-generated method stub
             disp();
public void disp()
    Intent intent = new Intent(Intent.ACTION_VIEW, uri);
// Use the Calendar app to view the time.
    startActivity(intent);
public boolean onCreateOptionsMenu(Menu menu) (
                                                     action bar if it is present.
     getMenuInflater().inflate(R.menu.main, menu);
    return true;
// On Click of Show Calendar View
public void calendar ViewActivity (View view) {
    // Redirecting to new activity
Intent intent = new Intent( packageContext: MainActivity.this, CalendarActivity.class);
    startActivity(intent);
```



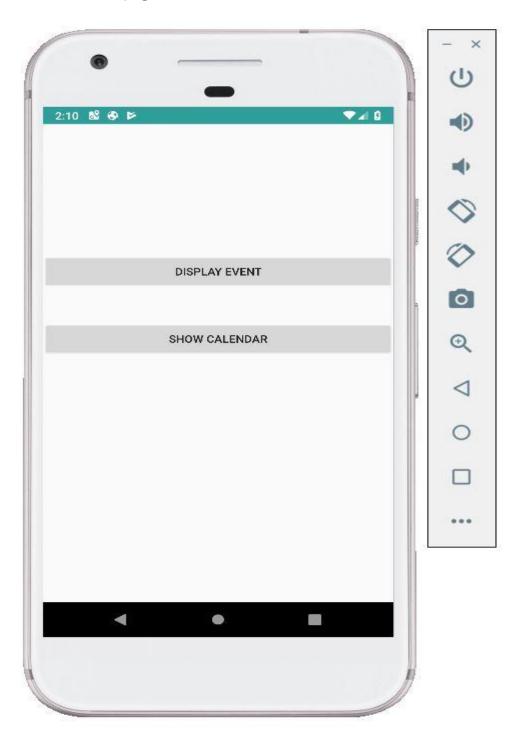
• XML file to show calendar view





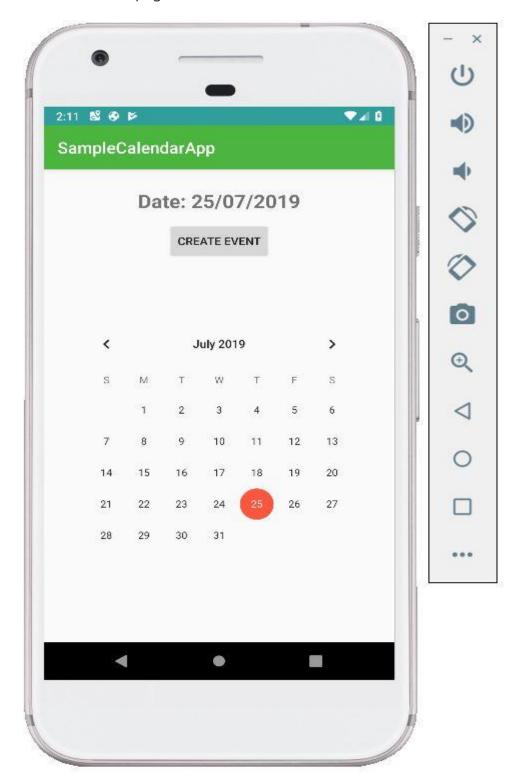
Output:

• Welcome page



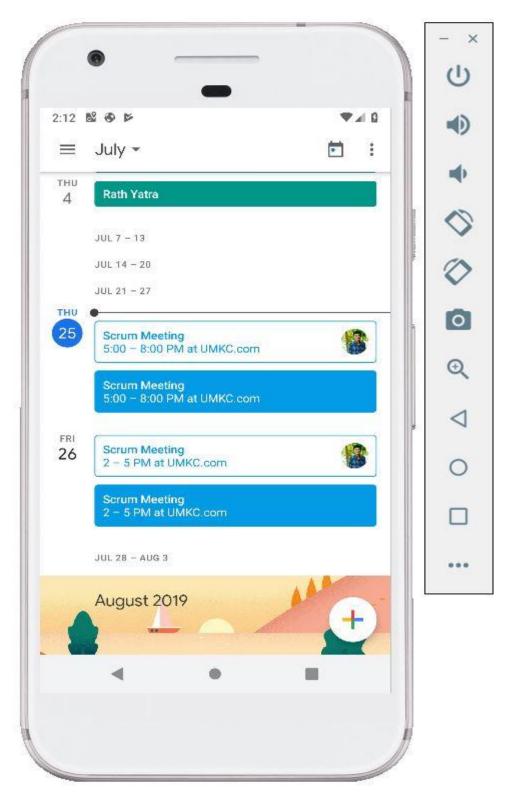


 Calendar showing the current date and having create event button in show calendar page



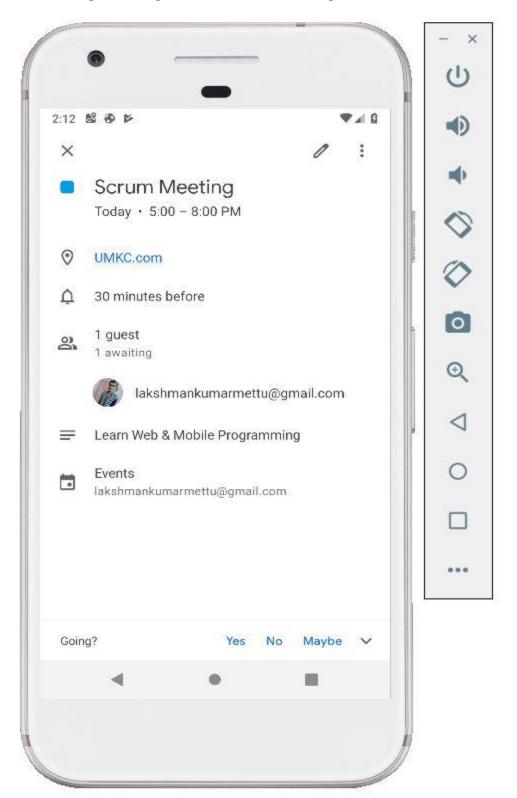


Creating an event and showing it in display event page



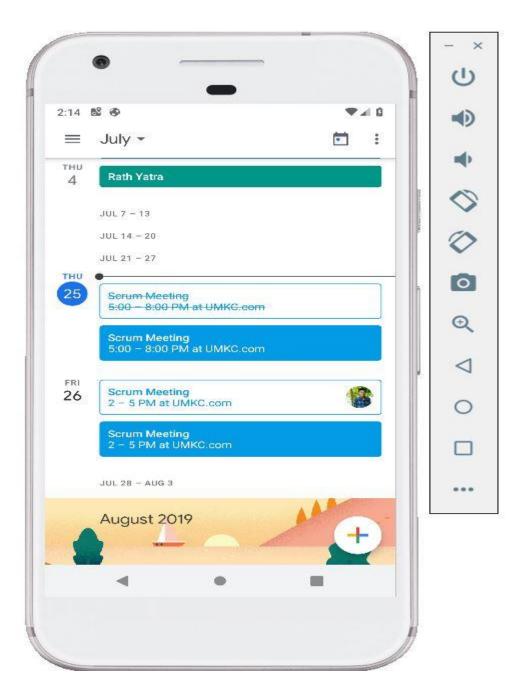


• Showing the images of saved events along with user interests





• If User Interest is not willing to go then event get strikes



Conclusion:

 Learnt how to create and usage of calendar in android applications for any projects.

