

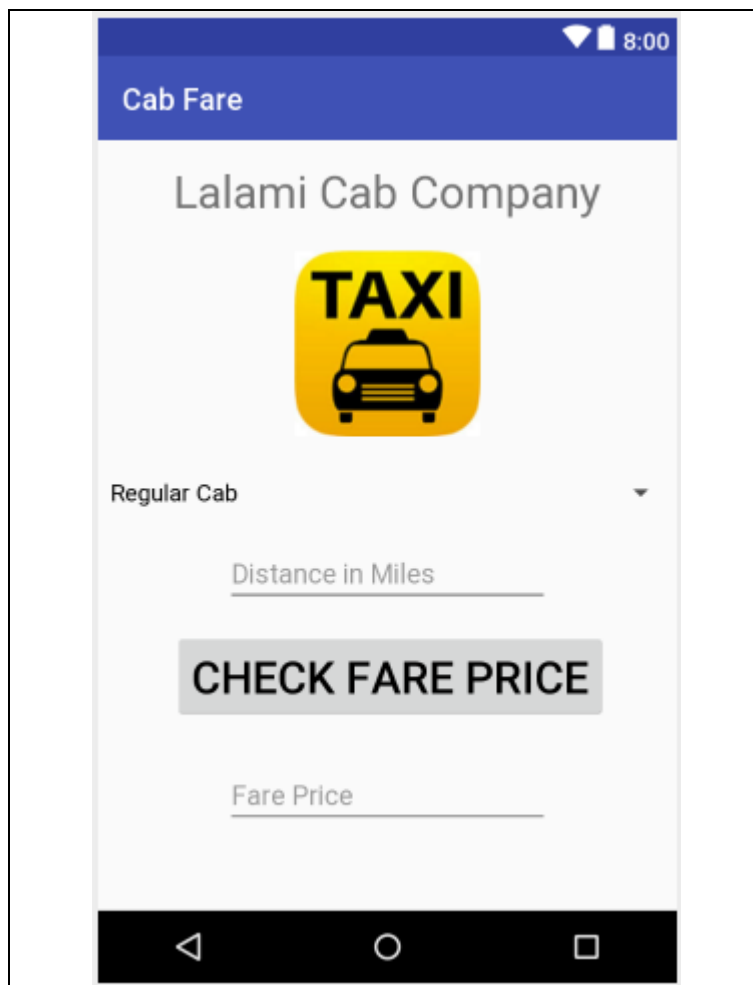
Project 3-3:

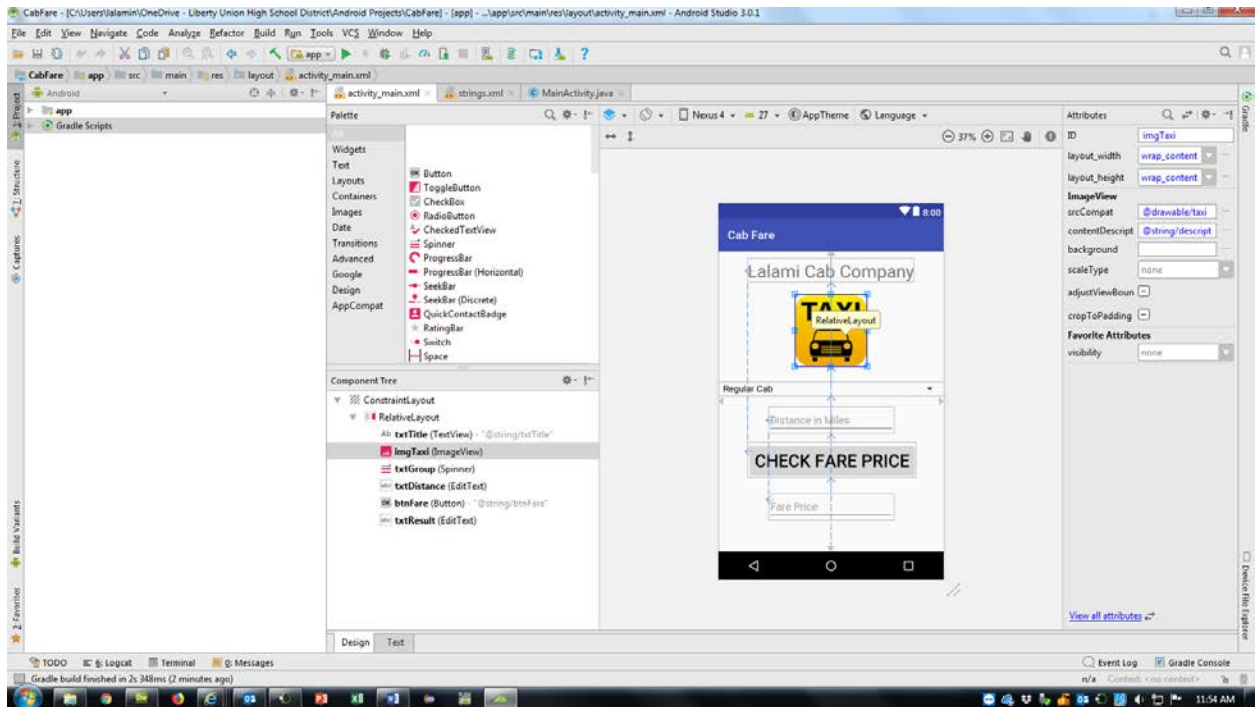
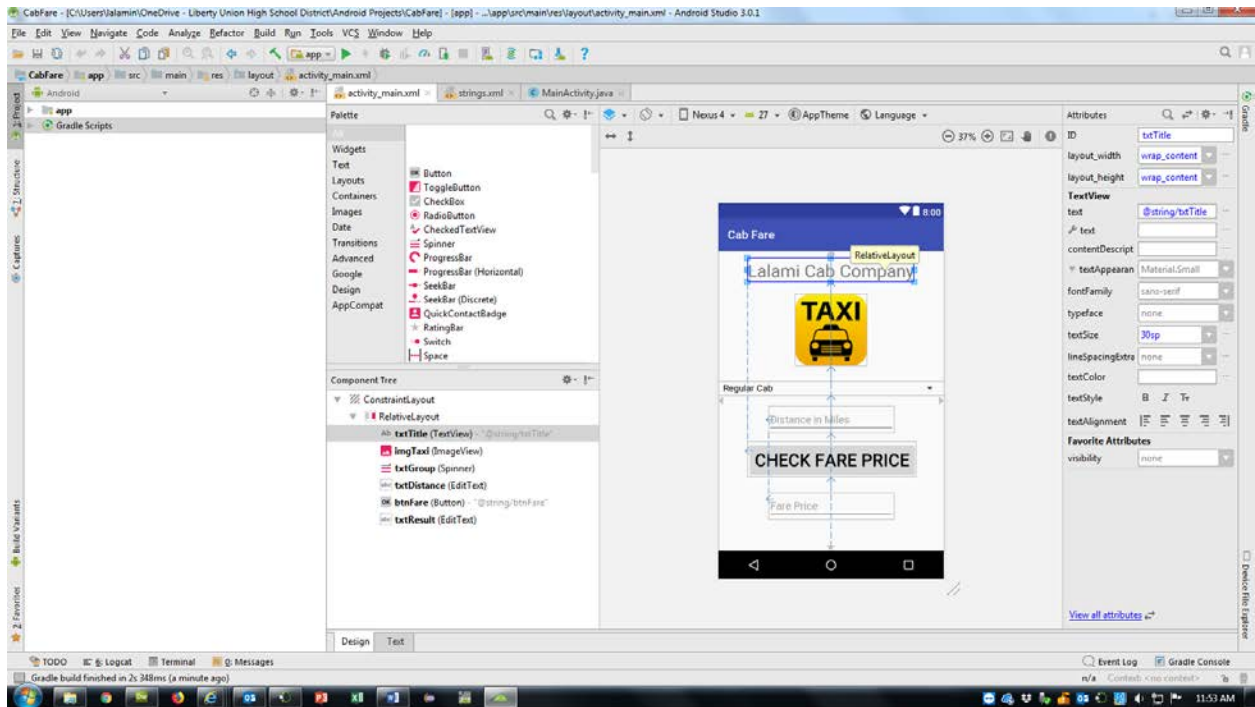
Application title: Chicago Cab Fare App

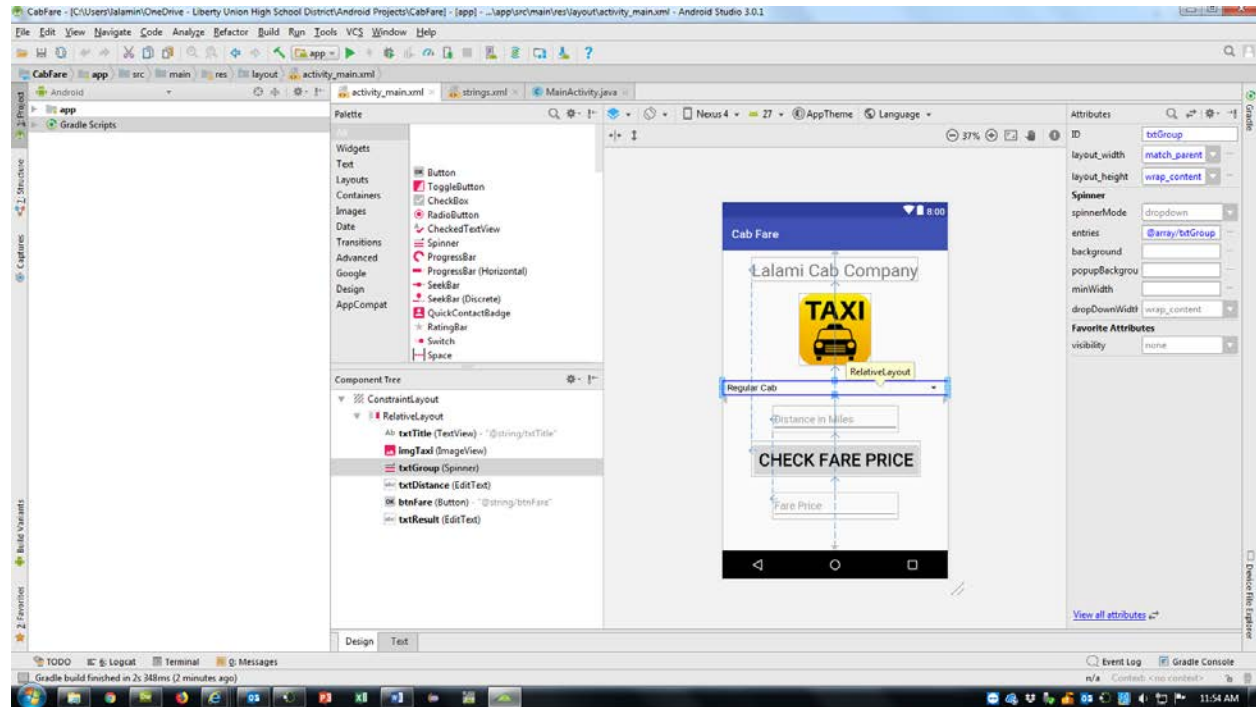
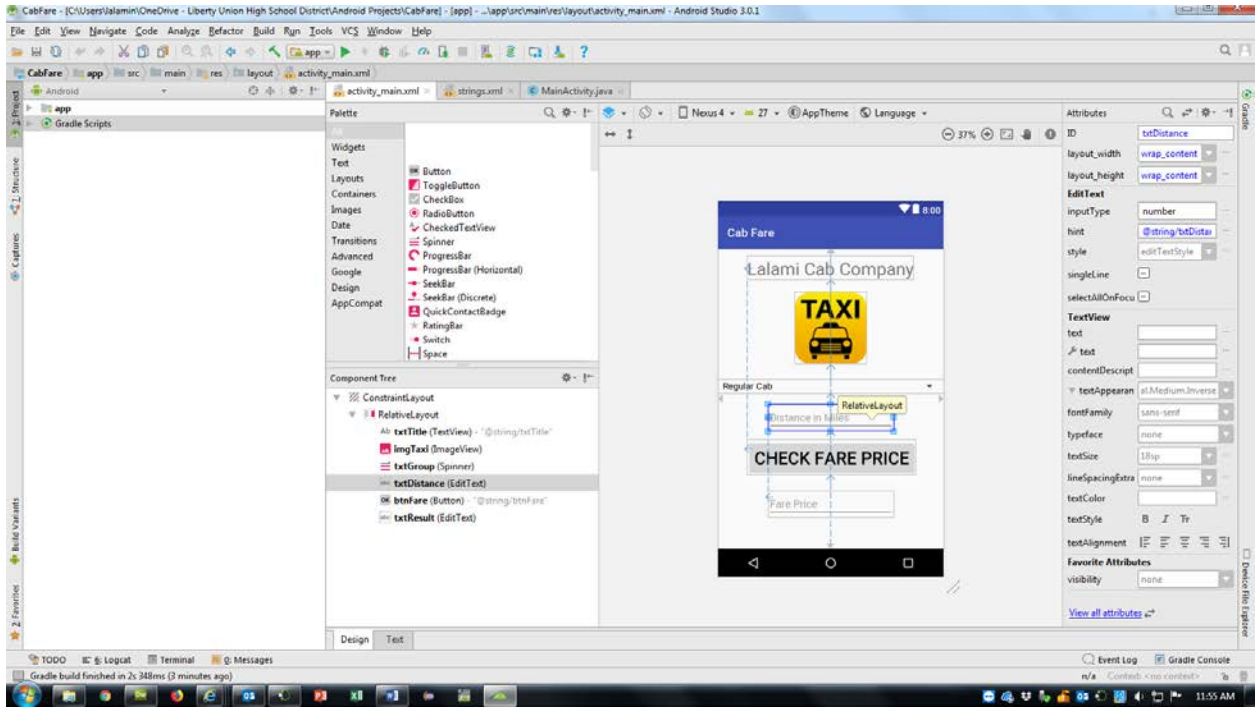
Purpose: Create an app that estimates the cost for cab fare. The app calculates the cost of the trip and requests a reservation for a particular car.

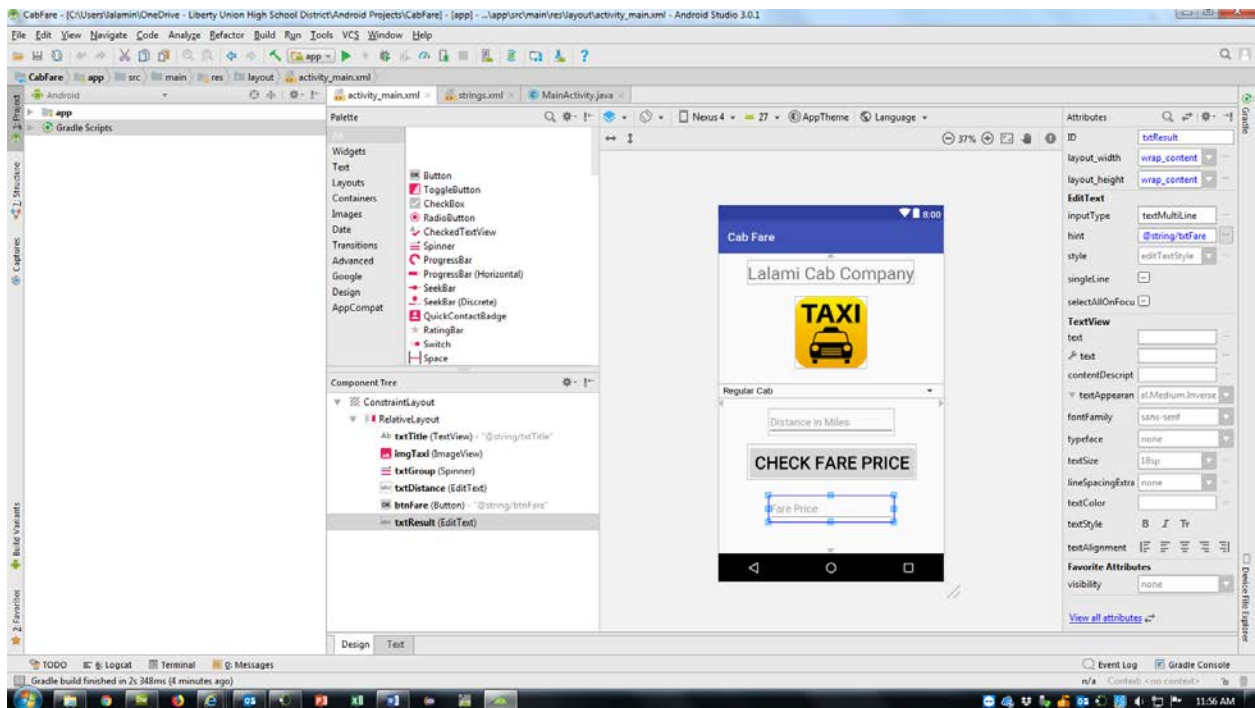
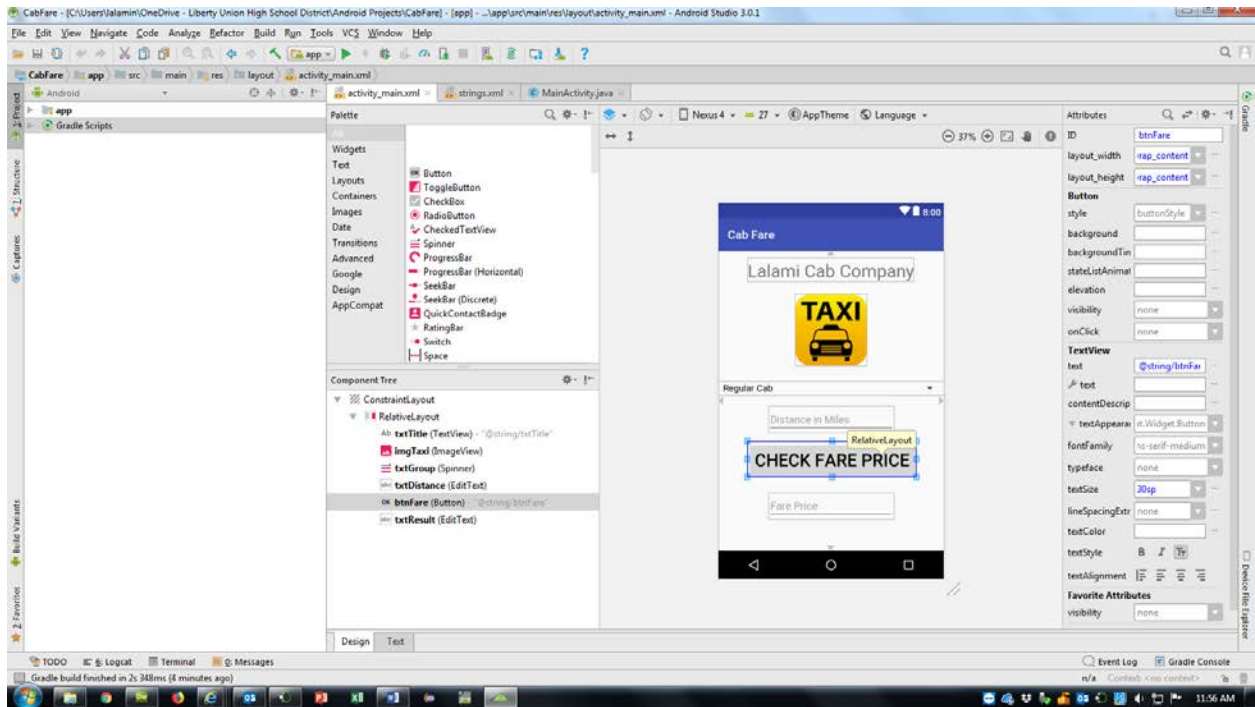
Algorithms: The app requests the distance in miles for the cab ride and your preference for the requested cab: a regular cab, car with disability access, a van or a car with child seat. The cab fare has an initial fee of \$3.00. The mileage rate of \$2.75 per mile is also charged.

When the user clicks the Button, the app displays the name of a cab company, a picture of a logo, and the results of the requested type of cab with the cost of the fare.









Strings.xml

```
<resources>
  <string name="app_name">Cab Fare</string>
  <string name="txtTitle">Lalami Cab Company</string>
  <string name="description">Taxi Image</string>
  <string name="btnFare">Check Fare Price</string>
  <string-array name="txtGroup">
    <item>Regular Cab</item>
    <item>Van</item>
    <item>Disability Access</item>
    <item>Child Seat</item>
  </string-array>
  <string name="txtDistance">Distance in Miles</string>
  <string name="txtFare">Fare Price</string>
</resources>
```

```

public class MainActivity extends AppCompatActivity {
    double initialFare = 3.00;
    double Distance;
    double farePerMile = 2.75;
    double meteredFare;
    int numberOfTicket;
    double totalCost;
    String groupChoice;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        final EditText distance =
            (EditText)findViewById(R.id.txtDistance);
        final Spinner group =
            (Spinner)findViewById(R.id.txtGroup);
        Button cost = (Button)findViewById(R.id.btnFare);
        cost.setOnClickListener(new View.OnClickListener() {
            final TextView result =
                ((TextView)findViewById(R.id.txtResult));
            @Override
            public void onClick(View v) {
                Distance =
                    Integer.parseInt(distance.getText().toString());
                meteredFare = Distance * farePerMile;
                totalCost = initialFare + meteredFare;
                groupChoice =
                    group.getSelectedItem().toString();
                DecimalFormat currency = new
                    DecimalFormat("$###,###.##");
                result.setText("The cost for " + groupChoice + "
                    is " + currency.format(totalCost));
            }
        });
    }
}

```

Steps to a successful App.

1. Don't forget to create your Keys and Values in the Strings.xml file
2. Don't forget to link the Keys and Values to their actual Components in the Properties
3. All the design happens in the activity_main.xml
4. All the code for the Events (i.e. Buttons) is done on the MainActivity.java file
5. All pictures and media go inside the Drawable folder
6. To Import classes use Alt-Enter
7. Save and test your work frequently
8. Sync your work frequently