**Design document for Toy Car**

Library

#include <SoftwareSerial.h>

GPIO definition

//Define motor pins

const int motorFrontA = 8; // Pin 8 of L298

const int motorFrontB = 9; // Pin 9 of L298

const int motorBackA = 10; // Pin 10 of L298

const int motorBackB = 11; // Pin 11 of L298

//Bluetooth Receive, Transmit (RX, TX)

const int bt\_RX = 5;

const int bt\_TX = 6;

//Buzzer & Speaker to Arduino UNO

const int buzzer = 2 ;

//LEDs

const int LED\_L = 3;

const int LED\_R = 4;

Global variables

int btData; //to contain Bluetooth data

Features definition

a: Light on

b: Light off

c: Buzzer on

d: Buzzer off

e: Go Straight

f: Turn Left

g: Turn Right

f: Go Forward

i: Go Backward

j: Stop