Flyzy Booking REST API - Java Servlet Code

DBUtil.java

```java
package db;

import java.sql.Connection;
import java.sql.DriverManager;

public class DBUtil {
    public static Connection getConnection() throws Exception {
        Class.forName("com.mysql.cj.jdbc.Driver");
                return  DriverManager.getConnection("jdbc:mysql://localhost:3306/travel",  "root",
"yourpassword");
    }
}
```

AddBookingServlet.java

```java
package servlets;

import db.DBUtil;
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.sql.*;

public class AddBookingServlet extends HttpServlet {
    protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws IOException {
        resp.setContentType("application/json");
        PrintWriter out = resp.getWriter();

        try (BufferedReader br = req.getReader();
             Connection conn = DBUtil.getConnection()) {
            StringBuilder json = new StringBuilder();
            String line;
            while ((line = br.readLine()) != null) {
                json.append(line);
            }

            String body = json.toString();
            String name = body.split("\"customer_name\":\"")[1].split("\"")[0];
            String destination = body.split("\"destination\":\"")[1].split("\"")[0];
            String date = body.split("\"date\":\"")[1].split("\"")[0];

             String sql = "INSERT INTO bookings (customer_name, destination, date, status) VALUES
(?, ?, ?, 'pending')";
            PreparedStatement ps = conn.prepareStatement(sql);
            ps.setString(1, name);
            ps.setString(2, destination);
            ps.setDate(3, Date.valueOf(date));
            ps.executeUpdate();

            out.println("{\"message\":\"Booking added successfully\"}");
```

```java
        } catch (Exception e) {
            resp.setStatus(500);
            out.println("{"error":"" + e.getMessage() + ""}");
        }
    }
}
```

ViewBookingsServlet.java

```java
package servlets;

import db.DBUtil;
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.sql.*;

public class ViewBookingsServlet extends HttpServlet {
    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws IOException {
        resp.setContentType("application/json");
        PrintWriter out = resp.getWriter();

        try (Connection conn = DBUtil.getConnection()) {
            String sql = "SELECT * FROM bookings";
            Statement st = conn.createStatement();
            ResultSet rs = st.executeQuery(sql);

            out.println("[");
            boolean first = true;
            while (rs.next()) {
                if (!first) out.println(",");

out.printf("{"id":%d,"customer_name":"%s","destination":"%s","date":"%s","status":"%s"}",
                    rs.getInt("id"), rs.getString("customer_name"),
                                rs.getString("destination"), rs.getDate("date").toString(),
rs.getString("status"));
                first = false;
            }
            out.println("]");
        } catch (Exception e) {
            resp.setStatus(500);
            out.println("{"error":"" + e.getMessage() + ""}");
        }
    }
}
```

UpdateBookingServlet.java

```java
package servlets;

import db.DBUtil;
import javax.servlet.*;
```

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```java
import javax.servlet.http.*;
import java.io.*;
import java.sql.*;

public class UpdateBookingServlet extends HttpServlet {
    protected void doPut(HttpServletRequest req, HttpServletResponse resp) throws IOException {
        resp.setContentType("application/json");
        PrintWriter out = resp.getWriter();

        try (BufferedReader br = req.getReader(); Connection conn = DBUtil.getConnection()) {
            StringBuilder json = new StringBuilder();
            String line;
            while ((line = br.readLine()) != null) json.append(line);

            String body = json.toString();
            int id = Integer.parseInt(body.split("\"id\":")[1].split("}")[0]);

            String sql = "UPDATE bookings SET status = 'confirmed' WHERE id = ?";
            PreparedStatement ps = conn.prepareStatement(sql);
            ps.setInt(1, id);
            int rows = ps.executeUpdate();

            if (rows > 0)
                out.println("{\"message\":\"Booking confirmed\"}");
            else {
                resp.setStatus(400);
                out.println("{\"error\":\"Booking ID not found\"}");
            }
        } catch (Exception e) {
            resp.setStatus(500);
            out.println("{\"error\":\"" + e.getMessage() + "\"}");
        }
    }
}
```

DeleteBookingServlet.java

```java
package servlets;

import db.DBUtil;
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.sql.*;

public class DeleteBookingServlet extends HttpServlet {
    protected void doDelete(HttpServletRequest req, HttpServletResponse resp) throws IOException {
        resp.setContentType("application/json");
        PrintWriter out = resp.getWriter();

        try (BufferedReader br = req.getReader(); Connection conn = DBUtil.getConnection()) {
            StringBuilder json = new StringBuilder();
```

```java
        String line;
        while ((line = br.readLine()) != null) json.append(line);

        String body = json.toString();
        int id = Integer.parseInt(body.split("\"id\":")[1].split("}")[0]);

        String sql = "DELETE FROM bookings WHERE id = ?";
        PreparedStatement ps = conn.prepareStatement(sql);
        ps.setInt(1, id);
        int rows = ps.executeUpdate();

        if (rows > 0)
            out.println("{\"message\":\"Booking deleted\"}");
        else {
            resp.setStatus(400);
            out.println("{\"error\":\"Booking ID not found\"}");
        }
    } catch (Exception e) {
        resp.setStatus(500);
        out.println("{\"error\":\"" + e.getMessage() + "\"}");
    }
  }
}
```