Stemup A Unit of Pragnova PVI Ltd

Assignment

Learner Details

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• Batch / Class: June 2025 MERN

• Assignment: CRUD Operations using Postman

• Date of Submission: 13/08/2025

Problem Solving Activity

1. Program Statement

Perform CRUD (Create, Read, Update, Delete) operations on ATM data using Postman as the API testing tool. The application will be built using Node.js with Express.js and will accept and return data in JSON format.

2. Algorithm

- Start the Node.js server using Express.js.
- Enable JSON parsing in Express to handle incoming JSON data from Postman.
- Create routes for:
 - GET "/" → Display ATM home page message.
 - o **GET** "/contactUs" → Display contact information.
 - o **POST** "/sendAtm" → Create ATM data from request body.
 - o PUT "/updateAtm/:id" \rightarrow Update ATM data based on the given ID.
 - o **DELETE** "/deletedAtm/:id" \rightarrow Delete ATM data by ID.
- Start server and listen on the specified port.
- Test each route in Postman by sending appropriate HTTP requests with JSON payloads where needed.



3. Pseudocode

BEGIN

IMPORT express module

CREATE app object from express

ENABLE express.json() middleware to parse JSON input

LISTEN on port 4000

PRINT "Server running"

DEFINE route GET "/"

SEND "ATM home page message"

DEFINE route GET "/contactUs"

SEND "ATM contact info message"

DEFINE route POST "/sendAtm"

EXTRACT data from request body

SEND "ATM data received" along with JSON data

DEFINE route PUT "/updateAtm/:id"

EXTRACT id from request parameters

EXTRACT updated data from request body

SEND "ATM data updated" message with new data

DEFINE route DELETE "/deletedAtm/:id"

EXTRACT id from request parameters



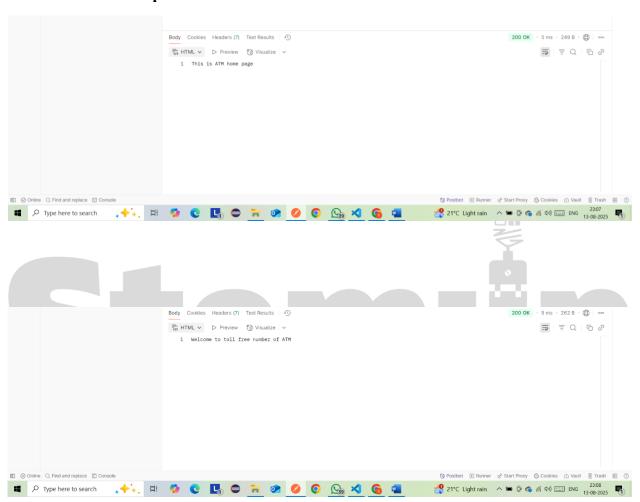
END

4. Program Code

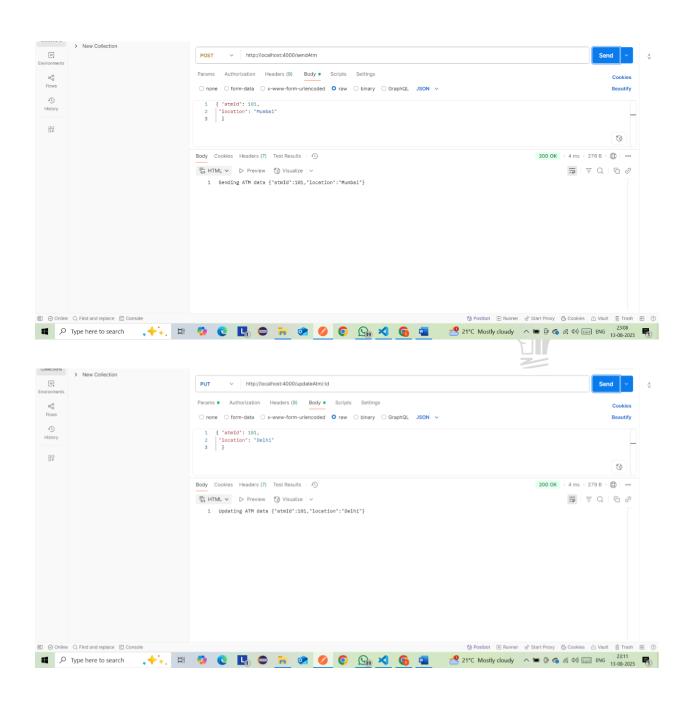
```
{} package.json
                 JS httpserver.js
                                   JS exp.js
                                                   JS middleware.js
JS exp.js > ...
      var express = require('express')
      var app = express();
      //change html data to json data explicitly
       app.use(express.json());
      app.listen(4000, () =>{
      console.log('Request Running on port 4000 server running');
       app.get("/",(req,res)=>{
           res.send('This is ATM home page');
       })
       app.get("/contactUs",(req,res)=>{
           res.send('Welcome to toll free number of ATM');
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       app.post("/sendAtm",(req,res)=>{
           res.send(`Sending ATM data ${JSON.stringify(req.body)}`);
       })
       app.put("/updateAtm/:id",(req,res)=>{
           res.send(`Updating ATM data ${JSON.stringify(req.body)}`);
       app.delete("/deletedAtm/:id",(req,res)=>{
           res.send(`Deleting ATM data ${req.params.id}`);
```



6. Screenshots of Output









7. Observation / Reflection

Setting up routes in Express was easy, but I had to enable express.json() for JSON data. Postman testing helped me check each method.I learned to name routes clearly and use req.params and req.body properly Next time, I'll add error handling and connect it to MongoDB for real data.

