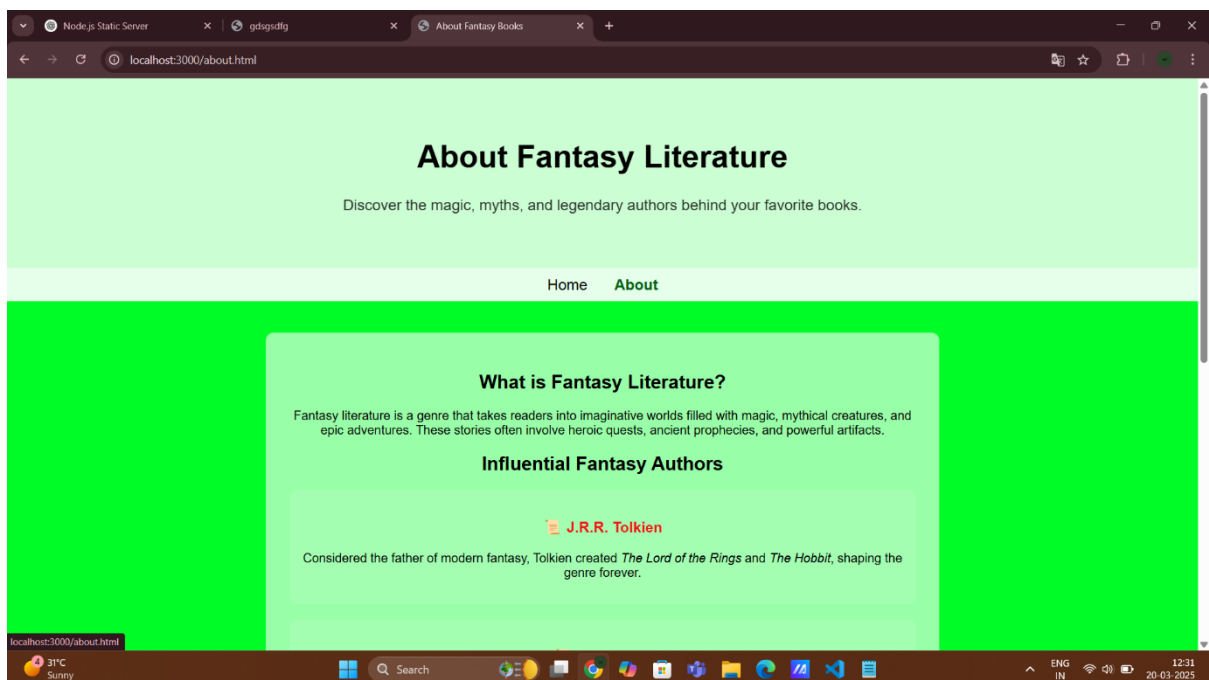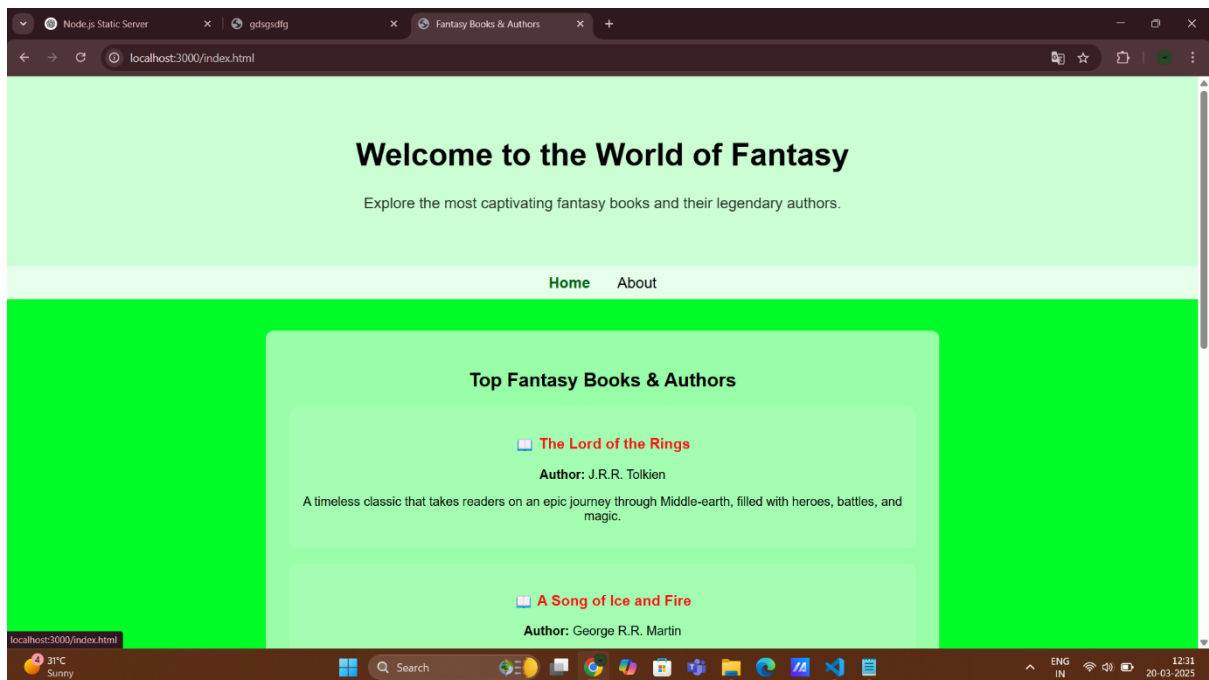# ASSIGNMENT NO 3[A]

server.js

```javascript
const http = require("http");
const fs = require("fs");
const path = require("path");

const PORT = 3000;

const serveFile = (filePath, contentType, response) => {
  fs.readFile(filePath, (err, data) => {
    if (err) {
      response.writeHead(404, { "Content-Type": "text/html" });
      response.end("<h1>404 Not Found</h1>");
    } else {
      response.writeHead(200, { "Content-Type": contentType });
      response.end(data, "utf-8");
    }
  });
};

const server = http.createServer((req, res) => {
  let filePath = req.url === "/" ? "public/index.html" : `public${req.url}`;
  let extname = path.extname(filePath);

  // Set content type based on file extension
  let contentType = "text/html";
  switch (extname) {
    case ".css":
      contentType = "text/css";
      break;
    case ".js":
      contentType = "text/javascript";
      break;
    case ".jpg":
    case ".jpeg":
      contentType = "image/jpeg";
      break;
    case ".png":
      contentType = "image/png";
      break;
  }
  serveFile(filePath, contentType, res);
});

server.listen(PORT, () => {
  console.log(`Server running at http://localhost:${PORT}`);
});
```