Handlebars

#Node JS Notes

Template Engine

Template Engines In Express Framework

- A template engine helps to create the HTML file in the application using very minimal code. Template engines allow us to generate HTML dynamically by adding the variables in the runtime.

list of template engines for Node.js Express

- Pug
- EJS
- handlebars
- hamlet

Handlebars

- Handlebars.js is a templating engine similar to the ejs module in node.js, but more powerful and simple to use.
- It ensures minimum templating and is a logicless engine that keeps the view and the code separated.
- It can be used with express as the hbs module, available through npm. HandleBars can be used to render web pages to the client side from data on the server-side.

Method

1. Main Handlebars (Default Layout)
2. Default Layout & Partials (Header Footer)
3. Only Partials (No Default Layout)

Steps

1.) Create New Project in Express

2.) Download Express-handlebard Package

```
>npm install --save express-handlebars
```

3.) Load Package in app.js

```
const exphbs  = require('express-handlebars');
```

4.)HandleBars Needs Following Directory Structure

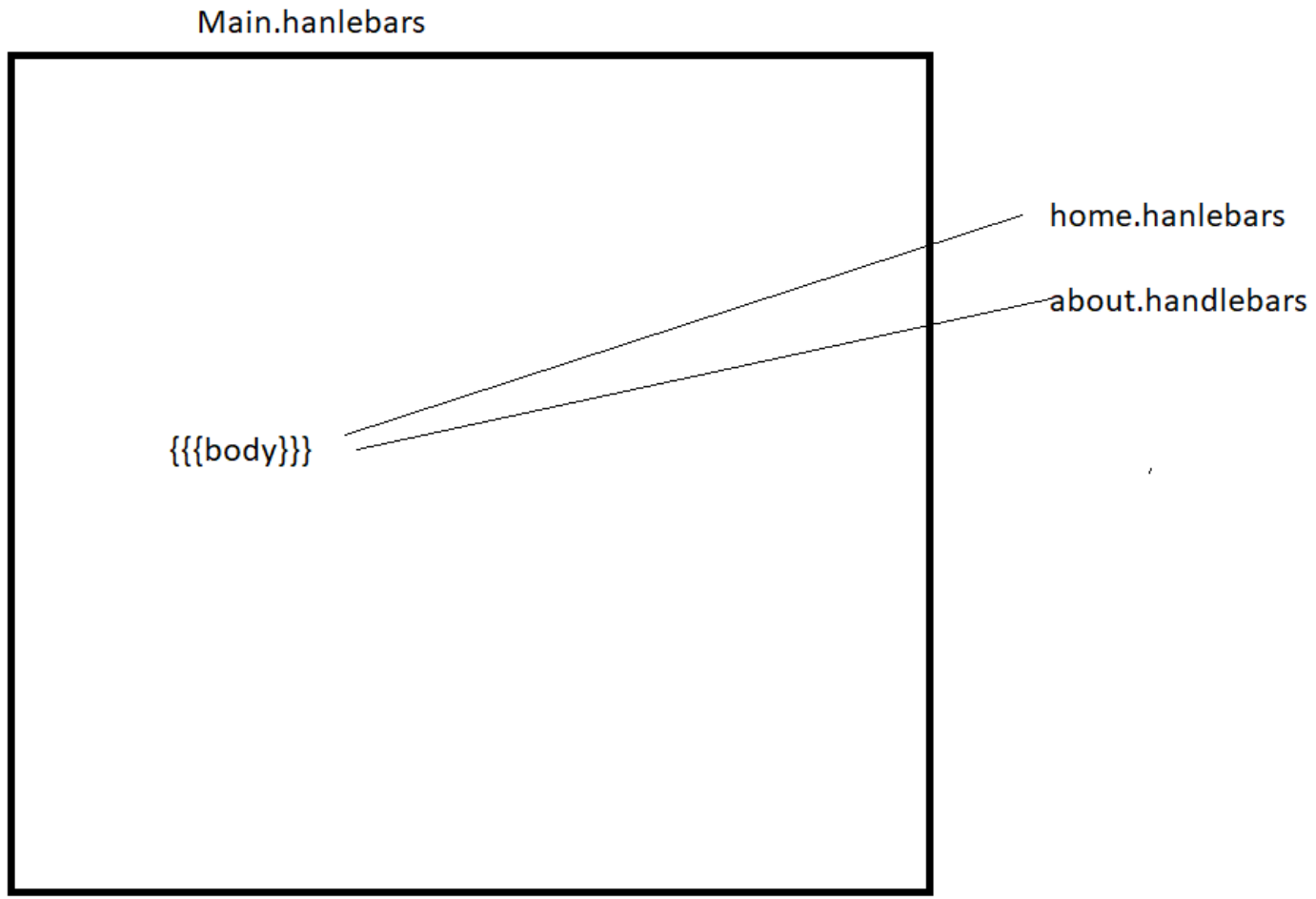
```
view/
        layouts/
                main.handlebars
                        {{title}}
index.handlebars
about.handlebars
```

5.)Add Middleware in App.js

```
app.engine('handlebars', exphbs({
                defaultLayout: 'main'
}));
app.set('view engine', 'handlebars');
```

Layout Benefit

- Code Reuse
- Easy to Change Website Layout at anytime
- We can create master Layout


Main.hanlebars
home.hanlebars
about.handlebars
{{{body}}}

Install Express-handlebars

package.json

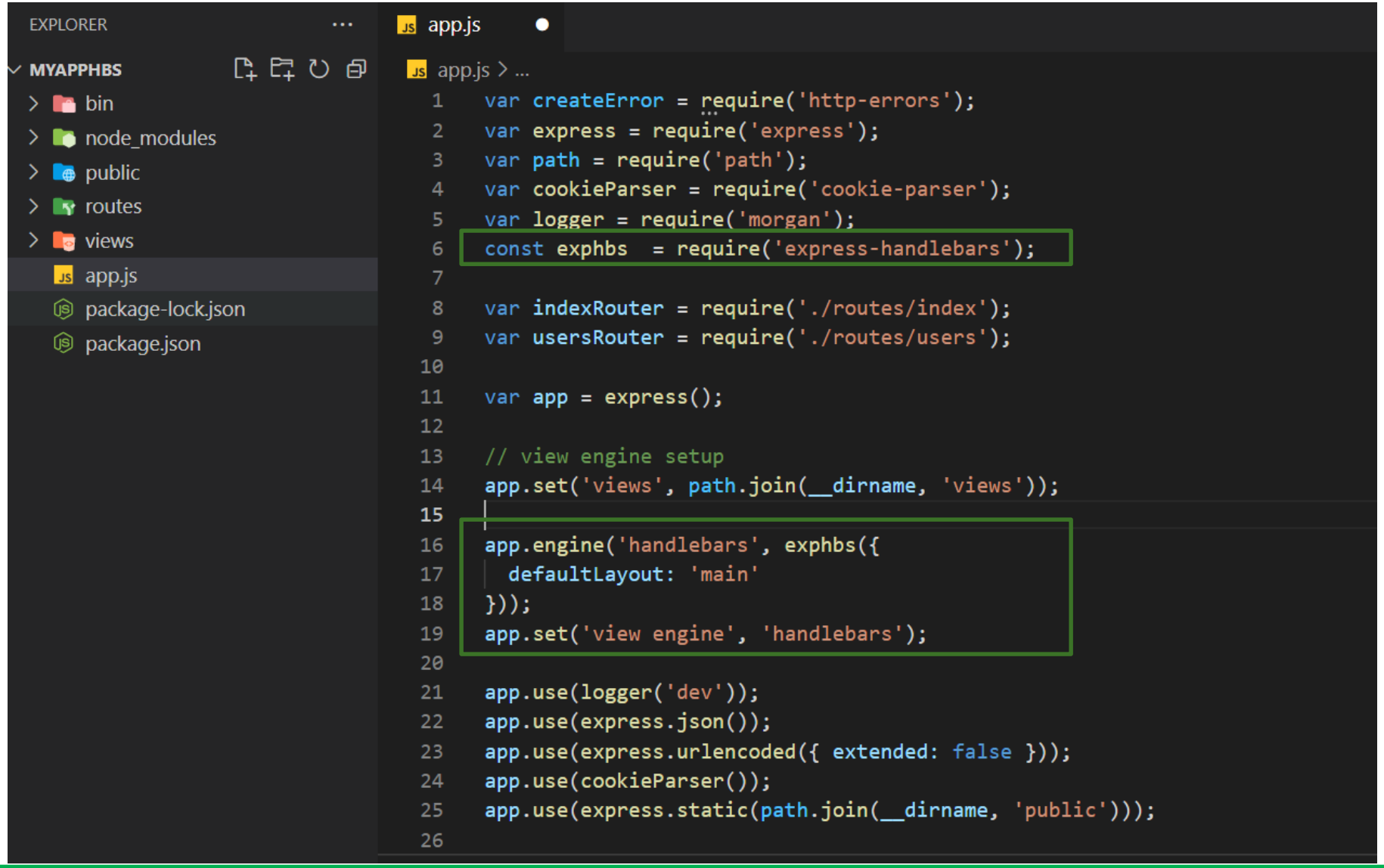
package.json > {} dependencies

```
4    "private": true,
     ▷ Debug
5    "scripts": {
6      "start": "node ./bin/www"
7    },
8    "dependencies": {
9      "cookie-parser": "~1.4.4",
10     "debug": "~2.6.9",
11     "express": "~4.16.1",
12     "express-handlebars": "^5.3.3",
13     "http-errors": "~1.6.3",
14     "morgan": "~1.9.1"
15   }
```

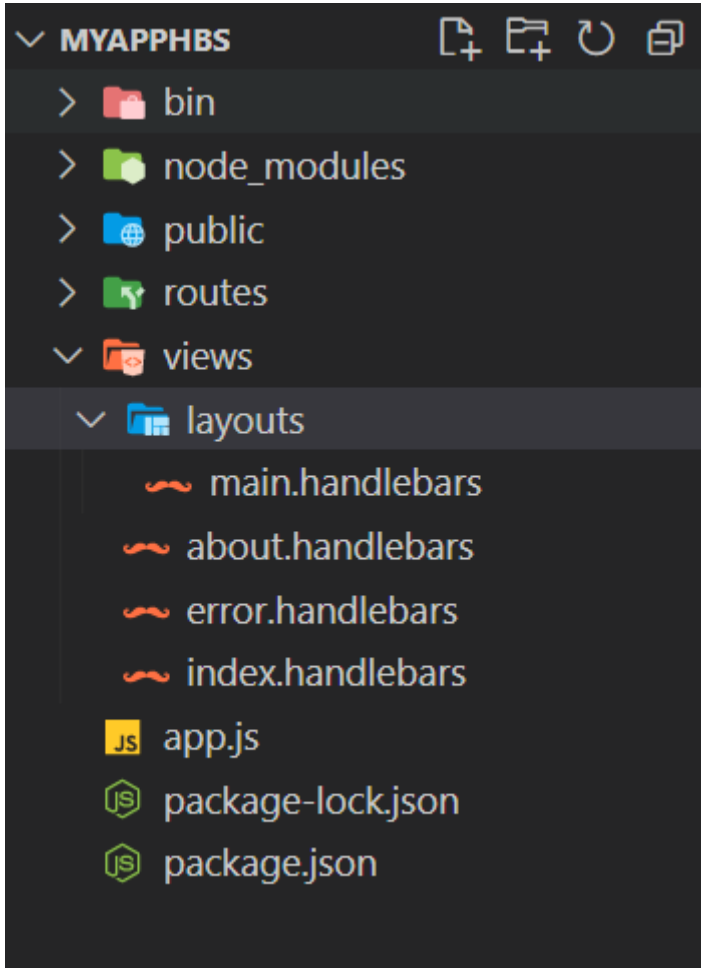
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
D:\lecture2k21\myapphbs>npm i express-handlebars --save

up to date, audited 79 packages in 2s

1 package is looking for funding
  run `npm fund` for details

4 vulnerabilities (2 low, 1 moderate, 1 critical)

To address all issues, run:
```

App Setup


EXPLORER
MYAPPHBS
bin
node_modules
public
routes
views
app.js
package-lock.json
package.json
app.js
app.js > ...
1 var createError = require('http-errors');
2 var express = require('express');
3 var path = require('path');
4 var cookieParser = require('cookie-parser');
5 var logger = require('morgan');
6 const exphbs = require('express-handlebars');
7
8 var indexRouter = require('./routes/index');
9 var usersRouter = require('./routes/users');
10
11 var app = express();
12
13 // view engine setup
14 app.set('views', path.join(__dirname, 'views'));
15
16 app.engine('handlebars', exphbs({
17 defaultLayout: 'main'
18 }));
19 app.set('view engine', 'handlebars');
20
21 app.use(logger('dev'));
22 app.use(express.json());
23 app.use(express.urlencoded({ extended: false }));
24 app.use(cookieParser());
25 app.use(express.static(path.join(__dirname, 'public')));
26

Folder


MYAPPHBS
bin
node_modules
public
routes
views
layouts
main.handlebars
about.handlebars
error.handlebars
index.handlebars
app.js
package-lock.json
package.json

Main.handlebars

main.handlebars

views > layouts > main.handlebars > ...

```
1   <html>
2   <body>
3       <center><h1>AkashSir.com</h1></center>
4       <hr/>
5       <a href="/">Home</a> | <a href="/about">About</a>
6       <hr/>
7           {{{body}}}
8       <hr/>
9       <p>Website Developed by Akash Padhiyar</p>
10  </body>
11  </html>
```

Handlebars

index.handlebars

views > index.handlebars > ...

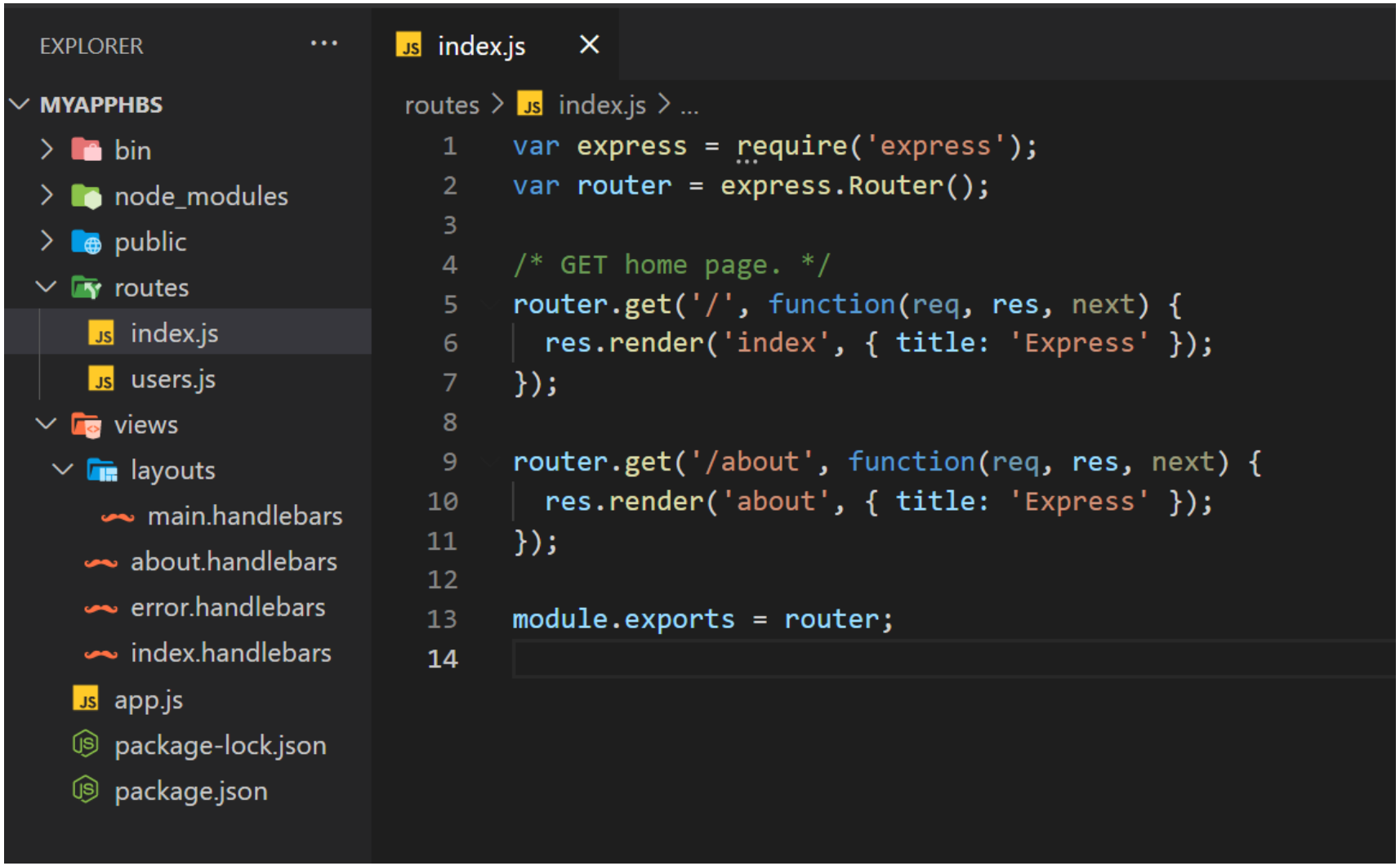
```
1   <p>Welcome to {{title}}</p>
2
```

about.handlebars

views > about.handlebars > ...

```
1   <h1>About</h1>
2
```

Route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bin
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users.js
views
layouts
main.handlebars
about.handlebars
error.handlebars
index.handlebars
app.js
package-lock.json
package.json
index.js
routes > index.js > ...
1 var express = require('express');
2 var router = express.Router();
3
4 /* GET home page. */
5 router.get('/', function(req, res, next) {
6 res.render('index', { title: 'Express' });
7 });
8
9 router.get('/about', function(req, res, next) {
10 res.render('about', { title: 'Express' });
11 });
12
13 module.exports = router;
14

Output

AkashSir.com

Home | About

Welcome to Express

Website Developed by Akash Padhiyar

AkashSir.com

Home | About

About

Website Developed by Akash Padhiyar

Partials

Using Shared Partials Handlebars Template

- Using partials we can call specific page code in other pages.

- Syntax: {{ > filename_without_extension }}

Register Partial Folder (Optional)

```
app.engine('handlebars', exphbs({
  defaultLayout: 'main',
  extname: '.handlebars',
  layoutsDir: path.join(__dirname, 'views/layouts'),
  partialsDir  : [
    //  path to your partials
    path.join(__dirname, 'views/partials'),
]
}));
app.set('view engine', 'handlebars');
```

app.js > ...

```
1   var createError = require('http-errors');
2   var express = require('express');
3   var path = require('path');
4   var cookieParser = require('cookie-parser');
5   var logger = require('morgan');
6   const exphbs  = require('express-handlebars');
7
8   var indexRouter = require('./routes/index');
9   var usersRouter = require('./routes/users');
10  var app = express();
11  // view engine setup
12  app.set('views', path.join(__dirname, 'views'));
13
14  app.engine('handlebars', exphbs({
15    defaultLayout: 'main',
16    extname: '.handlebars',
17    layoutsDir: path.join(__dirname, 'views/layouts'),
18    partialsDir  : [
19      //  path to your partials
20      path.join(__dirname, 'views/partials'),
21  ]
22  }));
23  app.set('view engine', 'handlebars');
24
```

Create Folder and Files

- Create Partials Folder and Various files in Folder

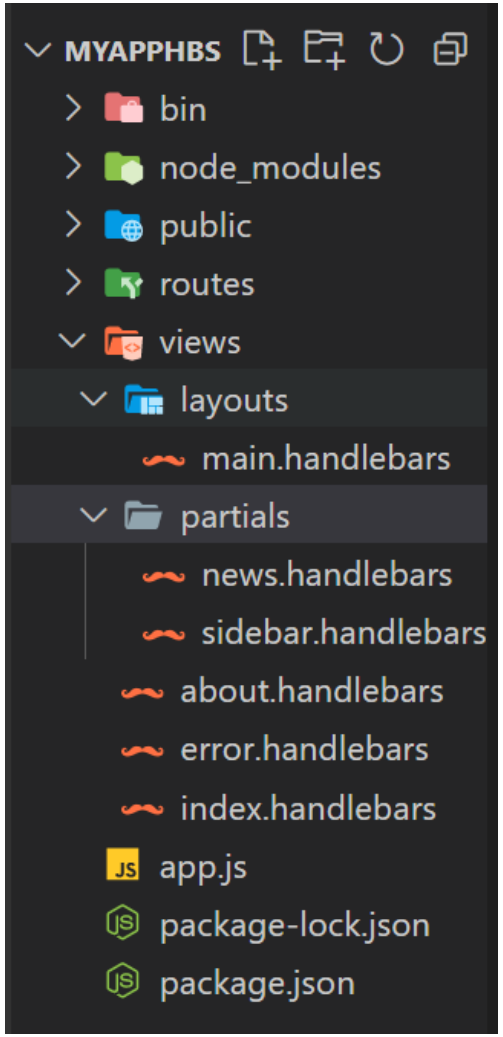
sidebar.handlebars

views > partials > sidebar.handlebars > ...

```
1   <h1>Sidebar</h1>
2
```

views > partials > news.handlebars > ...

```
1   <marquee> Welcome to my Website</marquee>
2
```



Call News Partial in Main

main.handlebars

views > layouts > main.handlebars > ...

```
1   <html>
2   <body>
3       <center><h1>AkashSir.com</h1></center>
4       <hr/>
5       <a href="/">Home</a> | <a href="/about">About</a>
6       <hr/>
7       {{> news}}
8       <hr/>
9           {{{body}}}
10      <hr/>
11      <p>Website Developed by Akash Padhiyar</p>
12
13  </body>
14  </html>
```

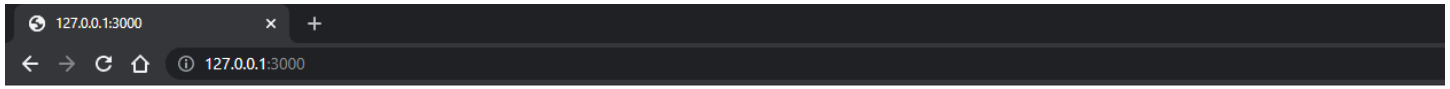
Partial in About

about.handlebars

views > about.handlebars > ...

```
1   <h1>About</h1>
2   {{> sidebar}}
```

Output



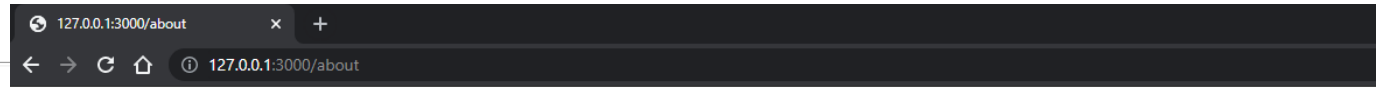
AkashSir.com

Home | About

Welcome to my Website

Welcome to Express

Website Developed by Akash Padhiyar



AkashSir.com

Home | About

Welcome to my Website

About

Sidebar

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Use Partials only

Use Partials Only not Default Layout

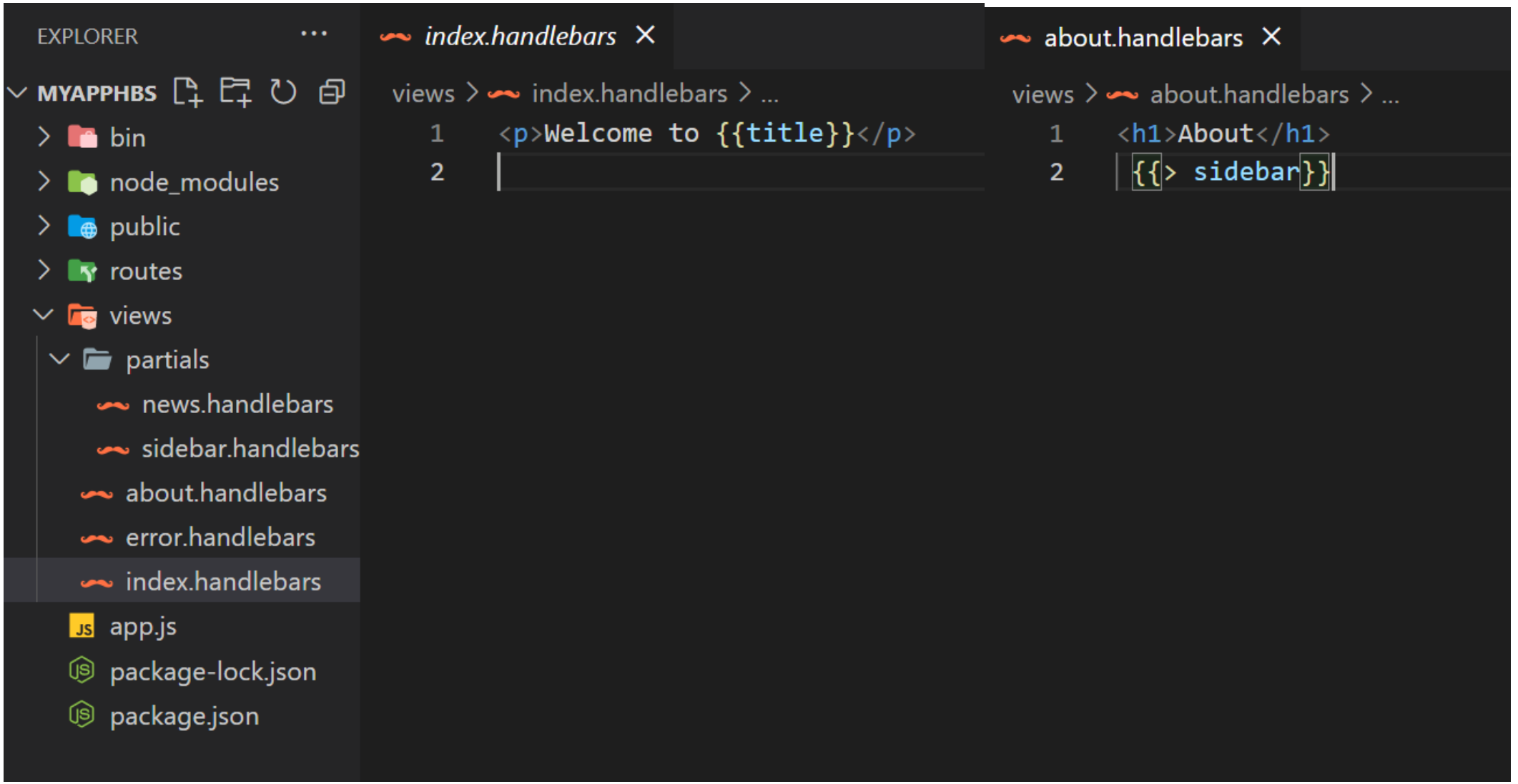
- By default handlebars calling main.handlebars file but if you don’t want to use it then you can add defaultLayout: false.

```
app.engine('handlebars', exphbs({
  extname: '.handlebars',
  defaultLayout: false,
  partialsDir  : [
    //  path to your partials
    path.join(__dirname, 'views/partials'),
]
}));
app.set('view engine', 'handlebars');
```

```
var cookieParser = require('cookie-parser');
var logger = require('morgan');
const exphbs  = require('express-handlebars');

var indexRouter = require('./routes/index');
var usersRouter = require('./routes/users');
var app = express();
// view engine setup
app.set('views', path.join(__dirname, 'views'));

app.engine('handlebars', exphbs({
  extname: '.handlebars',
  defaultLayout: false,
  partialsDir  : [
    //  path to your partials
    path.join(__dirname, 'views/partials'),
]
}));
app.set('view engine', 'handlebars');
```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news.handlebars
sidebar.handlebars
about.handlebars
error.handlebars
index.handlebars
app.js
package-lock.json
package.json
index.handlebars
views > index.handlebars > ...
1 Welcome to {{title}}
2
about.handlebars
views > about.handlebars > ...
1 <h1>About</h1>
2 {{> sidebar}}

127.0.0.1:3000
127.0.0.1:3000
Welcome to Express
127.0.0.1:3000/about
127.0.0.1:3000/about
About
Sidebar

Bind Data and Condition,Loops

Bind Data To Template

- Using handlebars we can even send the data to the template by just passing the data inside the render method.
-

```
app.get('/', (req, res) => {
    res.render('home', { msg: 'This is home page'});
});
```

Display Data Conditionally

- We can use the if-else condition in the template itself to show data conditionally.

```
<p>
  {{#if msg}}
    {{msg}}
  {{else}}
    No message was found
  {{/if}}
</p>
```

Display Array Data

- Handlebars also allow us to display an array of object data into templates using each syntax.

```
app.get('/people', (req, res) => {
    res.render('people', { peoples: [
      { name: 'user1'},
      { name: 'user2'},
    ]});
});
```

```
<ul class="people_list">
  {{#each peoples}}
  <li>{{name}}</li>
  {{/each}}
</ul>
```

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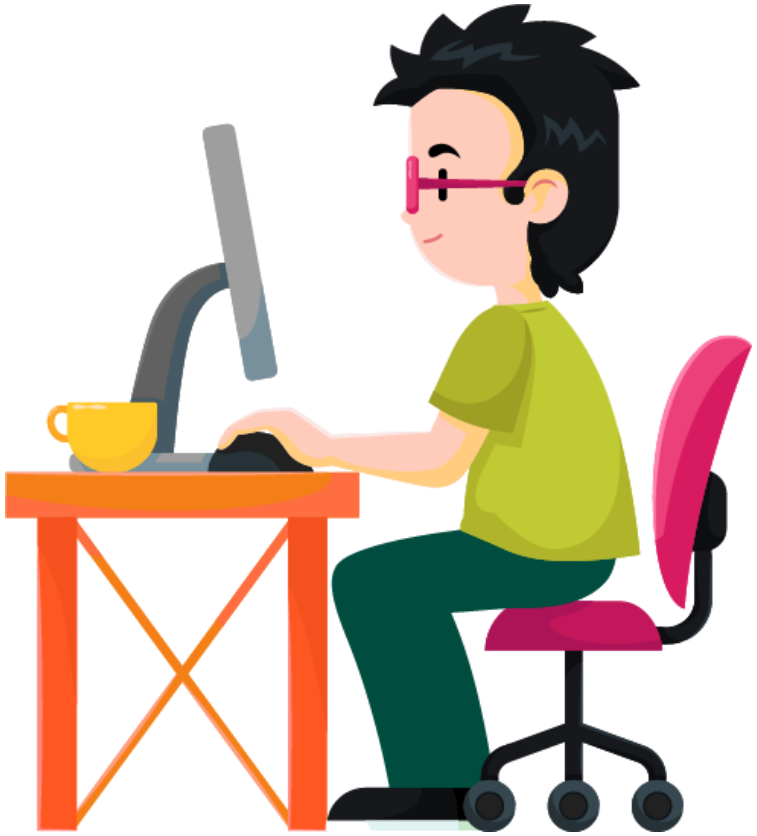

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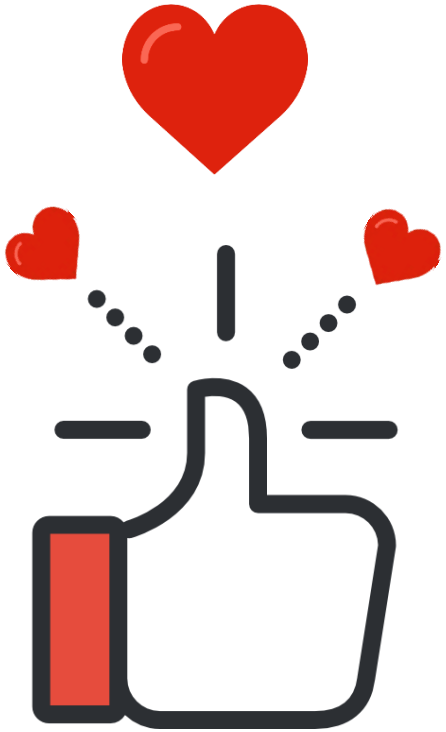

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