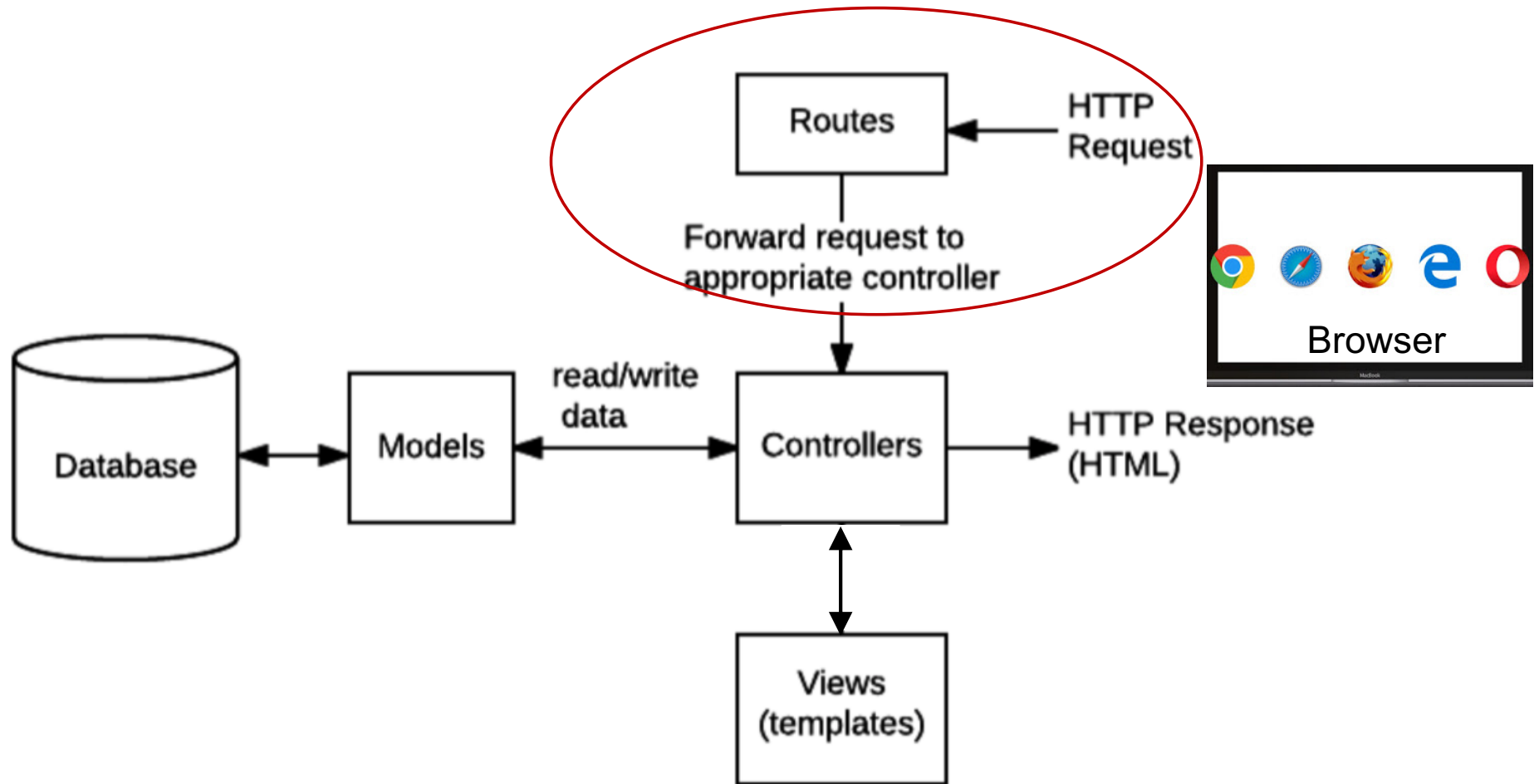


ITIS 5166

Network-Based Application Development

Routes

Express MVC App Architecture



Modularize Routes

- As the application grows bigger, more routes are needed
- In the story sharing web app, routes are needed for handling requests for users, stories, etc.
- Instead of including all of the routes in the app.js file, a better approach is to modularize routes into modules
- Each route module handles requests for a particular type of resource

Create a Route Module

- Use the Express **router** object to create route modules

```
//require the Express module  
const express = require('express');
```

```
//create a router object  
const router = express.Router();
```

```
//create routes in the module  
router.get('/', (req, res)=>{...});
```

```
//export the router object  
module.exports = router;
```

[Router object documentation](#)

Use a Route Module

- In app.js, require and mount the route module as a middleware on the app object

```
//require the route module  
const router = require('router');
```

```
//mount the route module, which handles all  
requests with the url prefix '/stories'  
app.use('/stories', router);
```

- All requests with '/stories' prefix will be handled by routes defined in this router

RESTful Routes

- REST stands for REpresentational State Transfer
- It is a standard that are widely used for building web services
- The RESTful route standard defines 7 routes to support basic CRUD operations performed on a resource: create, read, update and delete
- Each RESTful route includes the HTTP method, the name of the resource and sometimes the id of a particular resource

RESTful Routes for Stories

- RESTful routes defined in the route module of stories

HTTP Method	Path	Operation
GET	/stories	Show all stories
GET	/stories/new	Show an HTML form to create a new story
POST	/stories	Create a new story
GET	/stories/:id	Show details of the story identified by id
GET	/stories/:id/edit	Show an HTML form to edit the story identified by id
PUT	/stories/:id	Update the story identified by id
DELETE	/stories/:id	Delete the story identified by id

- Note that all of the path has the same prefix: '/stories'

Demo: create a route module
for stories