FIT295 Exam Preparation Checklist

Important Notes:

- ➤ This checklist includes (but limited to) the major terms and concepts we have practiced during the semester only.
- This checklist does not include the theoretical lecture notes (weekly Alexandria notes) which are examinable.
- ➤ All the applications you have developed are examinable.
- > Use this document as a checklist to ensure that all the major concepts have been studies.

Week 1

- const, let and var in JavaScript
- functions and objects in JavaScript

Week 2

- Classes in JS
- Export Modules
- npm init
- create an HTTP server
- respond to requests
- Query String
- require('url')
- path name

Week 3

- route parameters
- express
- app.get, app.listen
- url.parse
- res.send
- app.get('/pathname', function (req, res) {});
- req.url
- req.query
- req.params
- express.Router()
- Routing in Express.js

Week 4

- body-parser
- app.use (middleware)

- res.sendFile
- require('morgan')
- res.render()
- EJS
- <%= %>
- <% %>
- app.use(express.static())
- IaaS,PaaS,SaaS

Week 5

- require('mongodb')
- MongoClient.connect()
- insertOne, insertMany, findOne
- db.collection().find({}).toArray()
- Query the database
- comparison, sorting, and limit the result Expression Operators
- delete and update commands

Week 6

- Mongoose Schema and Models
- data validation and validator
- default values
- CRUD operations in Mongoose
- Querying Documents with Mongoose

Week 7

- GET, PUT, POST, DELETE
- Mongoose in RESTFul applications
- Mongoose populate method
- Mongoose CRUD operations
- Routing in RESTFul applications

Week 8

- Angular Module, Components, Services
- ng new, ng serve, ng g c, ng g s
- {{}}
- Data Binding
- ()
- [()]
- *ngIf, *ngFor, ngSwitch

Week 9

- app.use("/", express.static())
- constructor(), ngOnInit()
- component selector (i.e. <app-actor></app-actor>)
- @Injectable
- this.http.get(), this.http.post(),this.http.put(),this.http.delete()
- inject service to component
- Observables and Subscribe

Week 10

- Routing in Angular
- const routingTable: Routes = []
- RouterModule.forRoot
- <router-outlet></router-outlet>
- routerLink
- ngModule: declarations: [], imports: [], providers: []

Week 11

- this.socket = io.connect();
- socket.on(), io.on()
- socket.emit(), socket.boradcast.emit()
- io.emit(), io.sockets.emit()
- io.on("connection")

Week 12

- Passport.js
- passport.authenticate()
- firebase.database().ref
- firebase push