**Exercise06\_01\_01 – Step 1**

terminal

npm install –g yo

------------------------------------

terminal

npm install –g gulp bower generator-gulp-angular

------------------------------------

front-end terminal

yo gulp-angular my-message-front  
>Angular version 1.5.x  
>Deselect all extra Angular modules to keep it simple  
>None on jQuery  
>None, $http is enough  
>UI Router  
>Bootstrap  
>Angular UI Bootstrap  
>None, only CSS  
>ES6 (Babel)  
>None, standard HTML

------------------------------------

front-end terminal

gulp

------------------------------------

gulp/server.js

browserSync.instance = browserSync.init({

port: 8081,

startPath: '/',

server: server,

browser: browser

});

------------------------------------

front-end terminal

gulp serve

**Exercise06\_01\_01 – Step 2**

main.html

<div class="container">

<div>

<acme-navbar creation-date="main.creationDate">  
 </acme-navbar>

</div>

</div>

------------------------------------

main.html

<div class="panel panel-default">

<div class="panel-heading">Post A Message</div>

<div class="panel-body">

</div>

</div>

------------------------------------

main.html

<div class="panel-body">

<div class="input-group">

<textarea class="form-control custom-control"   
 rows="3" style="resize: none">

</textarea>

<span class="input-group-addon btn   
 btn-primary">Post</span>

</div>

</div>

------------------------------------

main.controller.js

export class MainController {

constructor() {

'ngInject';

}

}

main.controller.js

postMessage() {

console.log("post");

}

------------------------------------

main.html

<span class="input-group-addon btn btn-primary"

ng-click="main.postMessage()">Post</span>

**Exercise06\_01\_01 – Step 3**

back-end terminal

npm init

------------------------------------

back-end terminal

npm install express -save

------------------------------------

server.js

var express = require('express');

var app = express();

var port = 8080;

------------------------------------

server.js

var server = app.listen(port, () => {

console.log('Server listening on port %s', port);

});

------------------------------------

server.js

app.post('/api/message', (req, res) => {

console.log(req.body);

res.status(200);

});

------------------------------------

Postman

http://localhost:8080/api/message

------------------------------------

Postman

{

"test": "works"

}

------------------------------------

back-end terminal

npm install body-parser -save

server.js

var port = 8080;

var bodyParser = require('body-parser');

app.use(bodyParser.json());

**Exercise06\_01\_01 – Step 4**

main.controller.js

constructor($http) {

'ngInject';

this.$http = $http;

}

------------------------------------

main.controller.js

postMessage() {

this.$http.post('http://localhost:8080/api/message', {

msg: 'hello'

});

}

------------------------------------

server.js

app.use(bodyParser.json());

app.use((req, res, next) => {

res.header('Access-Control-Allow-Origin', '\*');

res.header('Access-Control-Allow-Headers',   
 'Content-Type, Authorization');

next();

}));

------------------------------------

main.html

<textarea class="form-control custom-control"   
 rows="3" style="resize: none"

ng-model="main.message">

</textarea>

------------------------------------

main.controller.js

this.$http.post('http://localhost:8080/api/message', {

msg: this.message

});

**Exercise06\_01\_01 – Step 5**

back-end terminal

npm install mongodb -save

------------------------------------

server.js

var bodyParser = require('body-parser');

var mongo = require('mongodb').MongoClient;

------------------------------------

server.js

var mongo = require('mongodb').MongoClient;

var url = 'mongodb://localhost:27017';  
var dbName = 'test';

var database;

------------------------------------

server.js

mongo.connect(url, (err, client) => {

if (err) {

return console.log('Error: ' + err);

}

database = client.db(dbName);

console.log('Connected to database: ' + dbName);

});

------------------------------------

server.js

console.log('Connected to database: ' + dbName);

database.collection('messages').insertOne({'msg': 'test'});

------------------------------------

server.js

app.post('/api/message', (req, res) => {

console.log(req.body);

database.collection('messages').insertOne(req.body);

res.status(200);

});