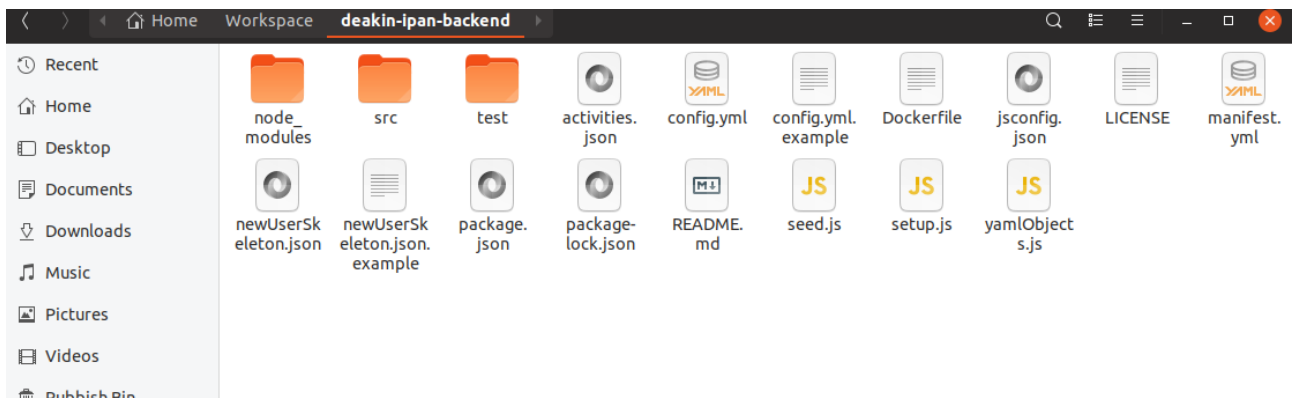
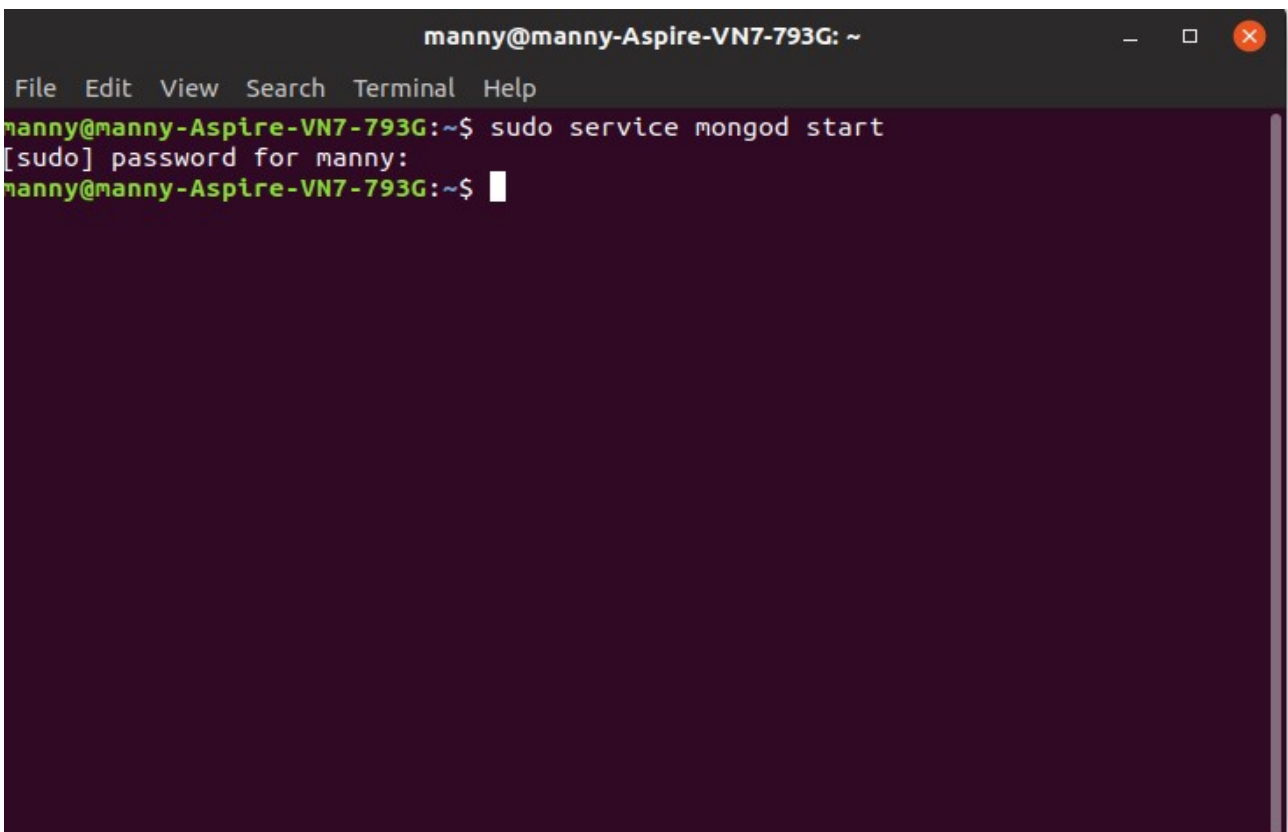


## Image for Pulling Back-end Code from git-hub



## Image for starting MongoDB server:



## Image starting for Redis-Server:

```
manny@Maneesh-Reddy: /mnt/c/redis-5.0.4/utis
Executable : /usr/local/bin/redis-server
Cli Executable : /usr/local/bin/redis-cli
Is this ok? Then press ENTER to go on or Ctrl-C to abort.^C
manny@Maneesh-Reddy:/mnt/c/redis-5.0.4/utis$ redis-server
1253:C 03 Apr 2019 11:18:56.330 # 000000000000 Redis is starting 000000000000
1253:C 03 Apr 2019 11:18:56.330 # Redis version=5.0.4, bits=64, commit=00000000, modified=0, pid=1253, just started
1253:C 03 Apr 2019 11:18:56.331 # Warning: no config file specified, using the default config. In order to specify a con
fig file use redis-server /path/to/redis.conf
1253:M 03 Apr 2019 11:18:56.333 * Increased maximum number of open files to 10032 (it was originally set to 1024).

Redis 5.0.4 (00000000/0) 64 bit

Running in standalone mode
Port: 6379
PID: 1253

http://redis.io

1253:M 03 Apr 2019 11:18:56.346 # WARNING: The TCP backlog setting of 511 cannot be enforced because /proc/sys/net/core/
somaconn is set to the lower value of 128.
1253:M 03 Apr 2019 11:18:56.347 # Server initialized
```

## Image for starting back-end code on the server:

```
manny@manny-Aspire-VN7-793G: ~/Workspace/deakin-ipan-backend
File Edit View Search Terminal Help
manny@manny-Aspire-VN7-793G:~/Workspace/deakin-ipan-backend$ NODE_ENV=test DEBUG=app*,-app:nDispatcher:REMOVED npm start

ipam@0.5.0 start /home/manny/Workspace/deakin-ipan-backend
nodemon src/server.js

nodemon] 1.18.11
nodemon] to restart at any time, enter 'rs'
nodemon] watching: *.*
nodemon] starting 'node src/server.js'
app:swagger hapi-swagger interface loaded +0ms
app:server Plugins Loaded +0ms
node:26513 [DEP0022] DeprecationWarning: os.tmpDir() is deprecated. Use os.tmpdir() instead.
node:26513 DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } t
MongoClient.connect.
app:server Server running at: http://manny-Aspire-VN7-793G:8000 +204ms
app:redishandler Redis connected +0ms
app:redishandler Redis is ready +2ms
app:socketHandler Socket listener started +0ms
node:26513 DeprecationWarning: collection.ensureIndex is deprecated. Use createIndexes instead.
app:dbHelper MongoDB connected, database: ipan_test +0ms
app:seed Seeding database for test environment.. +0ms
app:seed Establishing db connection inside seed.. +1ms
app:seed Destroying database first.. +1ms
app:seed Init db inside seed.. +11ms
app:counterModel Counter called for: activities undefined +0ms
node:26513 DeprecationWarning: collection.findOneAndModify is deprecated. Use findOneAndUpdate, findOneAndReplace or findOneAndDelete instead.
app:counterModel Counter called for: activities 2 +7s
app:counterModel Counter called for: activities undefined +2s
app:counterModel Counter called for: activities 4 +192ms
app:counterModel Counter called for: activities undefined +255ms
app:counterModel Counter called for: activities 6 +16ms
app:counterModel Counter called for: tasks 1 +25ms
app:counterModel Counter called for: modules 2 +11ms
app:counterModel Counter called for: modules 3 +5ms
app:counterModel Counter called for: modules 4 +3ms
app:counterModel Counter called for: modules 5 +4ms
app:counterModel Counter called for: modules 6 +3ms
app:counterModel Counter called for: modules 7 +4ms
app:counterModel Counter called for: modules 8 +4ms
app:counterModel Counter called for: modules 9 +4ms
app:counterModel Counter called for: modules 10 +23ms
app:counterModel Counter called for: programs 1 +5ms
app:counterModel Counter called for: programs 2 +4ms
app:counterModel Counter called for: notificationDefinitions undefined +2ms
app:counterModel Counter called for: notificationDefinitions undefined +2ms
app:counterModel Counter called for: notificationDefinitions undefined +2ms
app:counterModel Counter called for: users 1 +67ms
app:counterModel Counter called for: users 2 +10ms
app:counterModel Counter called for: users 3 +8ms
app:counterModel Counter called for: users 4 +7ms
app:counterModel Counter called for: users 5 +7ms
app:counterModel Counter called for: users 6 +5ms
```

## Image of testing sample code:

```
manny@manny-Aspire-VN7-793G: ~/Workspace/deakin-ipan-backend
File Edit View Search Terminal Help
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `mocha --exit -R spec test/tests/api/users.js`
Plugins Loaded

(node:26626) [DEP0022] DeprecationWarning: os.tmpDir() is deprecated. Use os.tmpdir() instead.
(node:26626) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the
new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
  Connection
Waiting for seed..
(node:26626) DeprecationWarning: collection.ensureIndex is deprecated. Use createIndexes instead.
(node:26626) DeprecationWarning: collection.findAndModify is deprecated. Use findOneAndUpdate, findOneAndReplace or findOneAnd
Delete instead.
Seed ready!
  User
    #post()
190410/142855.720, [response], http://manny-Aspire-VN7-793G:8000: post /api/user/login {} 200 (34ms)
    ✓ Should log in user. (39ms)
=====
190410/142904.056, [response], http://manny-Aspire-VN7-793G:8000: post /api/user/programs/1/modules/1/tasks/1/submit {} 200 (4
1ms)
  A valid key 'message' exists
    ✓ Should make a valid submission for user program 1 module 1 task 1. (42ms)
Trace: ERROR OCCURED NUMBER OF QUESTIONS AND SUBMITTED ANSWERS DIFFER
    at Object.sendError (/home/manny/Workspace/deakin-ipan-backend/src/utlis/helper.js:25:11)
    at CONTROLLERS.UsersController.postUserProfileProgramModuleTaskSubmission (/home/manny/Workspace/deakin-ipan-backend/src/r
outes/userProfileProgramTaskRoutes.js:50:41)
    at /home/manny/Workspace/deakin-ipan-backend/src/controllers/users/userProfileProgramsTasksController.js:119:21
    at /home/manny/Workspace/deakin-ipan-backend/node_modules/async/dist/async.js:3888:9
    at /home/manny/Workspace/deakin-ipan-backend/node_modules/async/dist/async.js:473:16
    at iterateeCallback (/home/manny/Workspace/deakin-ipan-backend/node_modules/async/dist/async.js:988:17)
    at /home/manny/Workspace/deakin-ipan-backend/node_modules/async/dist/async.js:969:16
    at /home/manny/Workspace/deakin-ipan-backend/node_modules/async/dist/async.js:3885:13
    at /home/manny/Workspace/deakin-ipan-backend/src/controllers/users/userProfileProgramsTasksController.js:101:70
    at /home/manny/Workspace/deakin-ipan-backend/node_modules/async/dist/async.js:3880:24
    at replenish (/home/manny/Workspace/deakin-ipan-backend/node_modules/async/dist/async.js:1011:17)
    at iterateeCallback (/home/manny/Workspace/deakin-ipan-backend/node_modules/async/dist/async.js:995:17)
    at /home/manny/Workspace/deakin-ipan-backend/node_modules/async/dist/async.js:969:16
    at /home/manny/Workspace/deakin-ipan-backend/node_modules/async/dist/async.js:3885:13
    at /home/manny/Workspace/deakin-ipan-backend/src/controllers/users/userProfileProgramsTasksController.js:85:9
    at /home/manny/Workspace/deakin-ipan-backend/node_modules/mongoose/lib/model.js:4690:16
    at /home/manny/Workspace/deakin-ipan-backend/node_modules/mongoose/lib/query.js:4099:12
    at cb (/home/manny/Workspace/deakin-ipan-backend/node_modules/mongoose/lib/query.js:1787:9)
    at result (/home/manny/Workspace/deakin-ipan-backend/node_modules/mongodb/lib/utils.js:414:17)
    at executeCallback (/home/manny/Workspace/deakin-ipan-backend/node_modules/mongodb/lib/utils.js:406:9)
    at handleCallback (/home/manny/Workspace/deakin-ipan-backend/node_modules/mongodb/lib/utils.js:128:55)
    at cursor.close (/home/manny/Workspace/deakin-ipan-backend/node_modules/mongodb/lib/operations/cursor_ops.js:224:62)
    at handleCallback (/home/manny/Workspace/deakin-ipan-backend/node_modules/mongodb/lib/utils.js:128:55)
    at completeClose (/home/manny/Workspace/deakin-ipan-backend/node_modules/mongodb/lib/cursor.js:893:14)
    at _endSession (/home/manny/Workspace/deakin-ipan-backend/node_modules/mongodb/lib/cursor.js:904:37)
    at Cursor._endSession (/home/manny/Workspace/deakin-ipan-backend/node_modules/mongodb-core/lib/cursor.js:195:5)
    at Cursor._endSession (/home/manny/Workspace/deakin-ipan-backend/node_modules/mongodb/lib/cursor.js:226:59)
```