

# Project 01

Create a To Do list app hosted on the IBM Cloud – due **Friday 9<sup>th</sup> October**

This task requires you to create a To Do app based on the IBM Cloud ‘backend service / web app’ starter kit found here:

<https://cloud.ibm.com/docs/apps?topic=apps-create-deploy-app-cli>, using **Node.js** and the **Cloudant** app service.

The app should allow a user to add, and complete items. Each To Do item should have:

- a status (to do / done),
- a description,
- a date.

You should split your team into two sub-teams. One will work together on the backend, the other will work together on the frontend.

The frontend team are required to:

- Implement the HTML and CSS for the main to do list page.
- Create a dummy login page (this should ask for username and password, but won’t actually perform an authorisation check – it should take users straight to the main to do list page).
- Join an HTML page to the /health route that the starter kit creates for you.

This should display:

- The status of the service.
- When the last item was added.
- How many items have been marked as done in the last week.
- How many records there are in the Cloudant DB.

The backend team are required to:

- Modify the functions provided by the starter kit to allow items to be added to, removed from and updated on the database.
- Add the functions that will allow the frontend to display the correct data for the /heath page.

Both teams need to implement appropriate tests, and there needs to be a development build in your CI/CD Toolchain that runs these. Once the tests pass a separate production instance should be created.

Other requirements include:

- You should all be working from one git repository (make sure that the lecturers are added to this) hosted on the BitBucket account for someone on your team. You can all have your own deployments on the IBM Cloud if you like.  
[Hint: Be careful when you first create your starter kit. Where do IBM put your code?]
- You should all use the same linter settings when writing code.
- You should store your data in the EU-GB data centre.

The first sprint will run from Monday 28<sup>th</sup> Sept – Monday 5<sup>th</sup> Oct.

The second will run from Tuesday 6<sup>th</sup> Oct – Friday 9<sup>th</sup> Sept (cut short a few days due to the October holidays).