

## Display the current time from an Atomic Clock

The whole exercise should be done over three days – three stages

### Requirements

Display the local regional atomic time. This is the time retrieved from an Atomic Clock server for the region that you live in.

The time should be displayed in the following format “<day> <month> <year> <hh:mm:ss>”. It should be in a font and style that makes it very noticeable.

The time must be retrieved from a time server – recommended server location <https://www.ntppool.org/en/>. Time servers that can be reached easily are at <https://www.pool.ntp.org/zone/europe>, and <http://www.ntp.org/>.

## Stage 3 – time to complete 5 hours

- Deliver two MVPs
  - MVP 1 – Develop the app so that it functions on any local machine served by a web server running locally
  - MVP 2 – Deploy the application onto remote servers that have been setup by the Ops Team. There should be two nodes; CDN node for ReactJS app, and application server node for Time service

### Requirements

#### Development Team

Develop an application that displays the current time in a web browser. The time should be retrieved from a server and not the result of using a javascript library call to get the time of the machine that the browser is running on. Research and find the most appropriate library for obtaining Network Time using NTP <http://www.ntp.org/>

Programming language → backend: Python/Java/C#, frontend: ReactJS

The ReactJS component - Web Server (CDN) and Time Server should be deployed into Docker containers. Each Docker container should be deployed onto separate nodes.

All code should be pushed to a git repo. You should set up a build pipeline that runs tests against the code that is pushed to the repo. If the tests pass, the build pipeline should produce a deployable artefact that can be passed over to the Ops Team.