

Alchemist

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Requirements

Please make sure you have the following requirements.

1. Java 1.8 (<https://java.com/en/download/>)
2. Node.js (<https://nodejs.org/en/>)
3. Eclipse *with Gradle support* (Can be obtained by searching for “Buildship Gradle” in the eclipse marketplace)

Download and install them as per the instructions on their website.

Getting Started

The Client

1. *Install ionic via npm.* In order to test the app locally, you need to install the ionic framework. This can be done easily using Node’s package manager `npm`.

```
npm install -g ionic
```

2. *Serve the app locally via ionic.* Simply go to the client’s directory and:

```
cd ./alchemist/client/  
ionic serve
```

3. *Open the client in your browser.* If your default browser does not open up automatically, try opening it manually and visiting to <http://localhost:8100/> (by default, ionic uses port 8100, but your installation may differ).

The Server

1. *Import the server as a Gradle Project.* Open up eclipse, and click **File > Import...**. When the dialog box appears, search for **Gradle** and click Next after selecting “Gradle Project”. Follow the instructions on the dialogue, (select **./alchemist/server/** as the project root directory).
2. *Run AlchemistController.* After the project is done importing and the dependencies are downloaded, open up **AlchemistController.java** and click **Run > Run As > Java Application**.

Example Searches

In case you're getting no results, try these **case-sensitive** searches:

Column	Search
Field of Research	Mechanical engineering

Organization	McMaster University
Province	Quebec
Professor*	"Zucker Jeffery"
Subject	Communications systems
Year	2003
Amount	10000

*The quotations matter when searching for professor names.