

# HandsOn Application Installation Guide

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## CONTENTS

- SECTION 1: Introduction
- SECTION 2: Installing Jooby
- SECTION 3: Installing the H2 Database
- SECTION 4: Running the System

## FILES INCLUDED WITH INSTALLATION GUIDE

*Build.gradle*

*Build (project directory generated by gradle)*

*Database Dump (**Schema.sql**)*

*Installation Guide*

## SECTION 1: INTRODUCTION

The Handson application is a web application that hosts and manages a selection of students who are looking to be involved in the Handson Event at the University of Otago allowing them to apply for various projects and rank their choices. The handson application also has staff and administrator functionality to allow staff to review applications and also for administrators to make changes to system.

The Handson web application uses the Jooby Framework as the basis for running the web application. The H2 Database works in conjunction with the web application for creating databases and for querying the database.

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### **READ BEFORE GOING FURTHER:**

**Before running web application please ensure you have installed both the Jooby framework and H2 Database to your computing system.**

**Use the gradle files to reproduce the application.**

## SECTION 2: INSTALLING JOOBY

To install Jooby you first need to have the following:

- Install JDK 8+
- Install Maven 3+

### START

Just paste this into a terminal (make sure Java 8 and Maven 3.x are installed):

```
mvn archetype:generate -B -DgroupId=com.mycompany -DartifactId=my-app -Dversion=1.0-SNAPSHOT -DarchetypeArtifactId=jooby-archetype -DarchetypeGroupId=org.jooby -DarchetypeVersion=1.2.3
```

You should see something similar to this at the end of the output:

```
INFO [2015-03-19 21:34:00,365] Hotswap available on: [my-app/public, my-app/conf, my-app/target/classes]
INFO [2015-03-19 21:34:00,368] includes:
[**/*.class,**/*.conf,**/*.properties]
INFO [2015-03-19 21:34:00,369] excludes: []
INFO [2015-03-19 21:34:00,937] [dev@netty]: App server started in 502ms
```

```
GET / [*/] [*/] (anonymous)
```

```
listening on:
http://0.0.0.0:8080/
```

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**Jooby is now installed** and should recognise the dependencies set in the application gradle of the application. If any issues please refer to official documentation at <https://jooby.io/v1/doc/>

## SECTION 2: INSTALLING THE H2 DATABASE

**STEP 1:** Follow link/command to download H2 based on your operating system.

WINDOWS: <https://h2database.com/h2-setup-2019-10-14.exe>

MAC OS: Run following in command line: **"brew h2 install"**

### RUNNING THE H2 DATABASE:

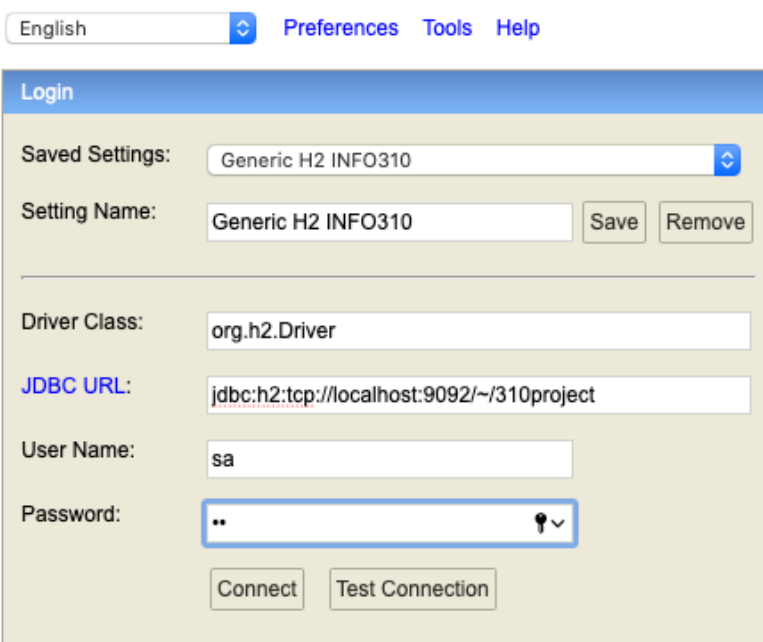
**STEP 1:** Open the H2 Console by running the H2 Application or using The command line script.

**STEP 2:** Once the H2 Console is open fill in the following details:

USERNAME = sa

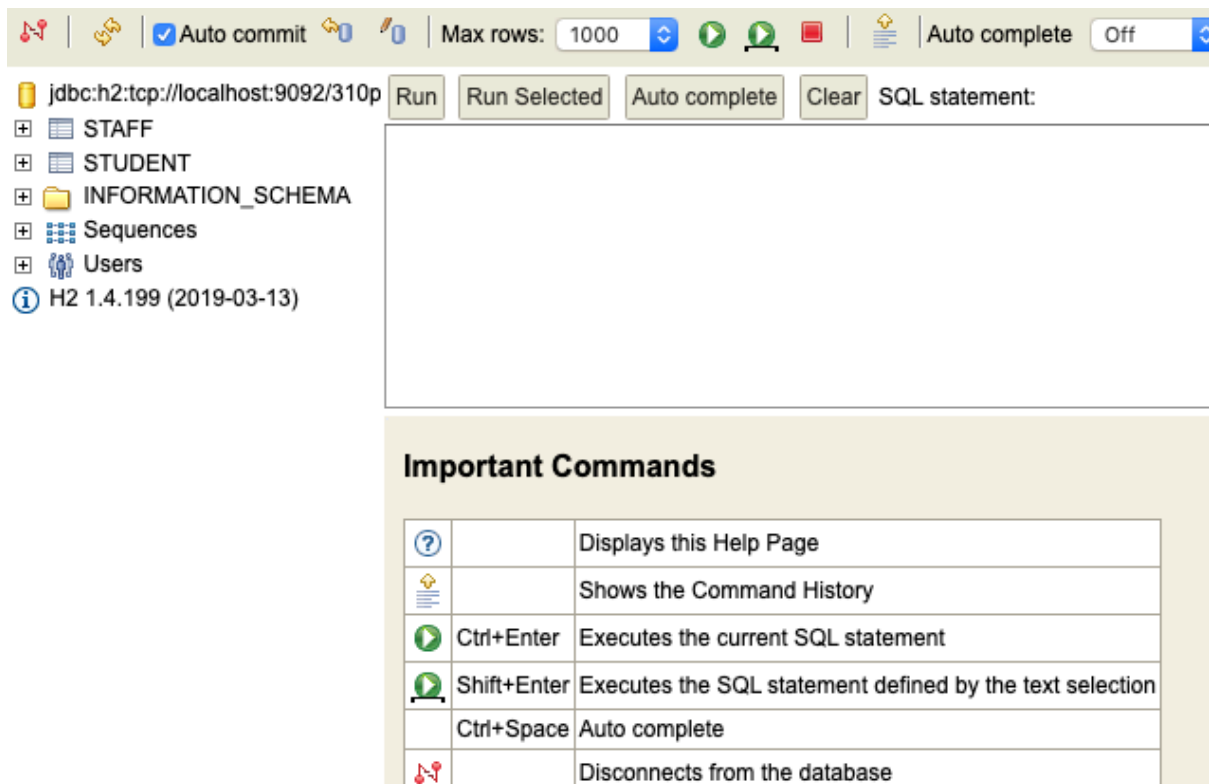
PASSWORD = sa

URI = jdbc:h2:tcp://localhost:9092/~ /310project

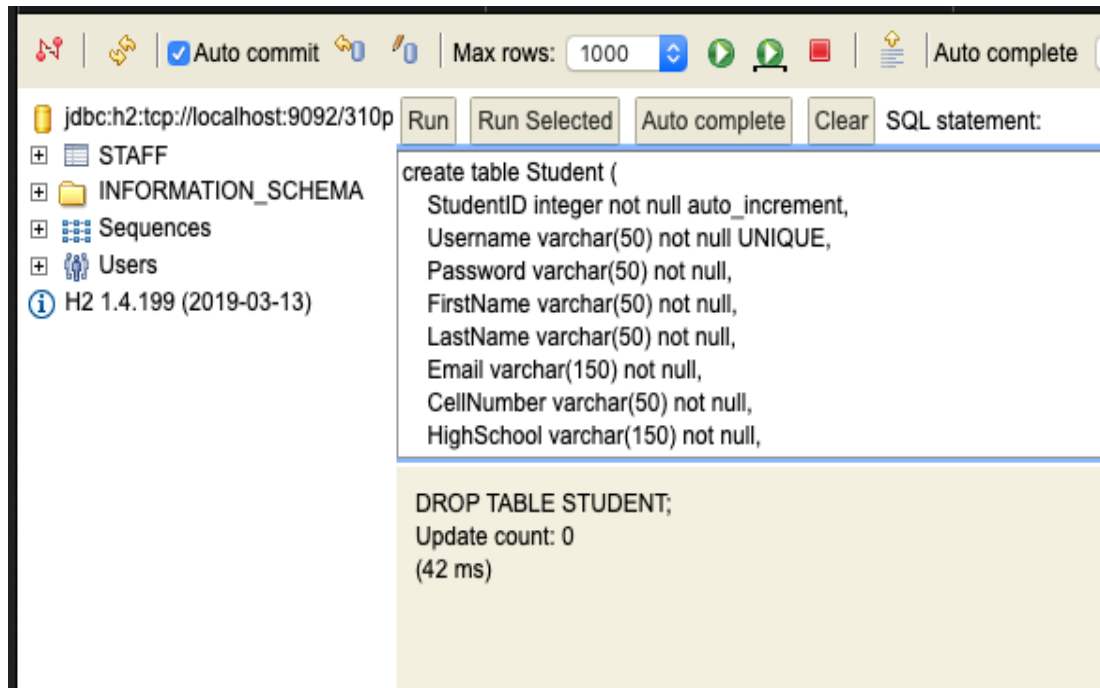


The screenshot shows the H2 Console Login dialog box. At the top, there is a language dropdown set to 'English' and menu links for 'Preferences', 'Tools', and 'Help'. The dialog has a title bar 'Login'. Below it, there is a 'Saved Settings:' section with a dropdown menu showing 'Generic H2 INFO310'. Underneath, the 'Setting Name:' is also 'Generic H2 INFO310', with 'Save' and 'Remove' buttons. The main configuration area includes: 'Driver Class:' set to 'org.h2.Driver'; 'JDBC URL:' set to 'jdbc:h2:tcp://localhost:9092/~ /310project'; 'User Name:' set to 'sa'; and 'Password:' with a masked input field containing two dots and a key icon. At the bottom are 'Connect' and 'Test Connection' buttons.

- STEP 3:** Click test connection to check that the database has a Connection with application. If it isn't successful check for any errors and correct (e.g. syntax error).
- STEP 4:** Reload console and input username and password parameters then click connect.
- STEP 5:** You should now have been taken to a new window with a SQL command box with options to run. See below:



**STEP 6:** Input the entire schema.sql file provided into the SQL input window of H2 Console and click run. See below



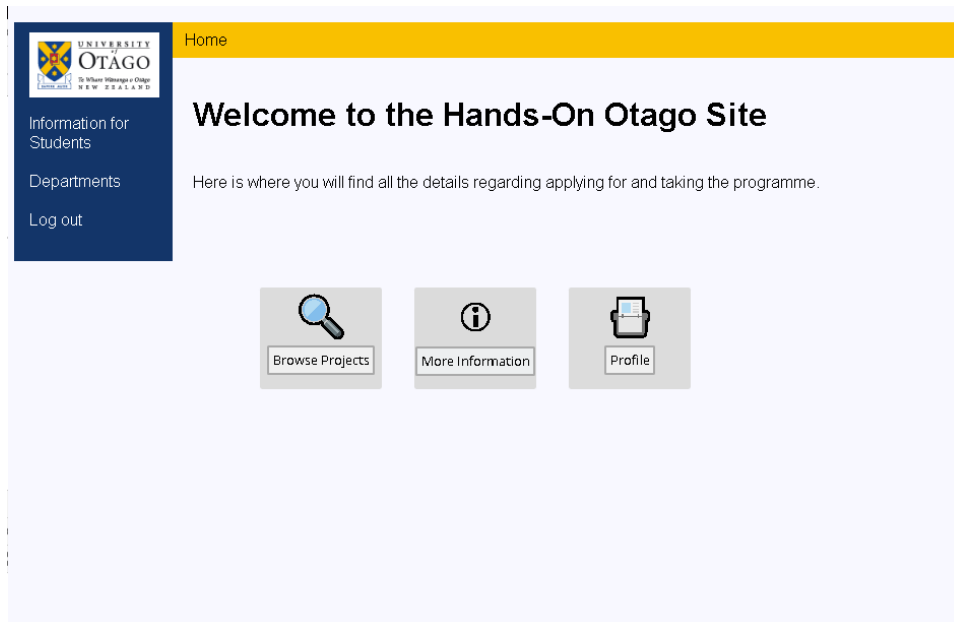
**STEP 7:** The tables on the left should now be updated and showing on the left hand side of the console. If this was successful you will now be able to use the application.

**H2 IS READY TO USE**

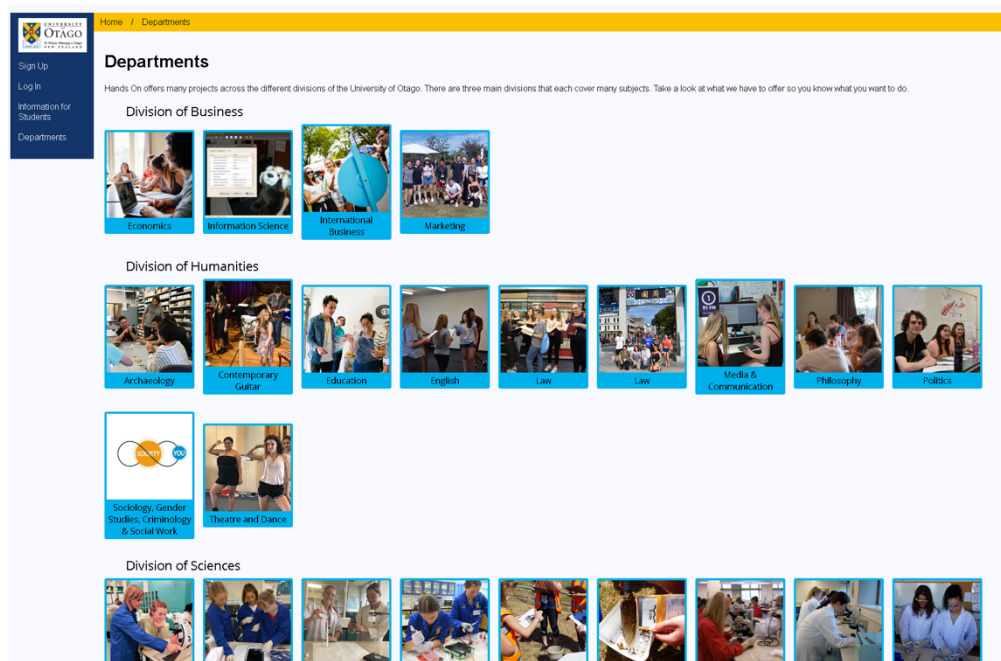
**KEEP YOUR H2 OPEN WHEN RUNNING APPLICATION**

## SECTION 2: USING THE SYSTEM


### Student Home Page



### Departments



## Student Profile



UNIVERSITY  
of  
OTAGO  
Te Whare Wānanga o Ōtago  
NEW ZEALAND

Home / Profile

Welcome, 333 333

Profile

Apply

Departments

Information for Students

Log out


Personal Details

Username:qwe  
First Name:333  
Surname:333  
Email:333  
School:333

Your Application

Application Status:  
No pending application

## Student Edit Profile



UNIVERSITY  
of  
OTAGO  
Te Whare Wānanga o Ōtago  
NEW ZEALAND

Home / Profile

Welcome, 333 333

Profile

Apply

Departments

Information for Students

Log out

Personal Details

Username:qwe  
First Name:333  
Surname:333  
Email:333  
School:333

Your Application

Application Status:  
No pending application

Edit Details

First Name:

Last Name:

E-Mail Address:

School:

Mobile Number:

Gender:

Year of Study:

Password:

8



## Applying and Ranking Projects for Students

UNIVERSITY OF OTAGO  
Te Whare Wānanga o Ōtago  
NEW ZEALAND

Home / Profile / Apply

Profile  
Departments  
Log out

Application Letter

Letter:

Rank Projects:

Choose which projects you'd like to do.

Project	Rank	Select
No projects added		

submits Reset

## Applying and Ranking Projects for Students

UNIVERSITY OF OTAGO  
Te Whare Wānanga o Ōtago  
NEW ZEALAND

Home / Profile / Apply

Profile  
Departments  
Log out

Application Letter

Letter:  
words goes here

Rank Projects:


Choose which projects you'd like to do.

Project	Rank	Select
Anatomy	1	<input type="checkbox"/>
Archaeology	2	<input type="checkbox"/>
Biochemistry	3	<input type="checkbox"/>
Chemistry	4	<input type="checkbox"/>

submits Reset

*Students can drag ranking across the table to change project preference.*

## Staff looking at posted applications and reviewing

  
Log out


Home / Profile / Apply

student id	department id	ranking	letter	accepted	Accept
33	4	1	asd	true	<input type="button" value="Accept"/>
1	4	6	qweasd qw eas dqwe azsd	true	<input type="button" value="Accept"/>
1	4	4	words goes here	false	<input type="button" value="Accept"/>
1	4	1	asdasd	false	<input type="button" value="Accept"/>


## Administrators Log-In

localhost:8085/admin.html

应用 YouTube 百度一下, 你就知道 哔哩哔哩弹幕视频网 Welcome, Derek - B... Otago Student Ad...

  
Sign Up  
Log In  
Departments

Home / Log In



Please sign in to continue.

Log In:

Default username for administrators: **admin**

Default password for administrators: **password**

Access link for administrators: <http://localhost:8085/admin.html>

END OF GUIDE