

# **Grad Apps 2.0**

## **System User Manual**

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# 1 General Information

General Information section explains in general terms the system and the purpose for which it is intended.

## 1.1 System Overview

GradApps 2.0 is a business system application, which allows, our client to *automate* the selection of the best candidate into the EECS Graduate Program by *minimizing* the manual work to be done. Our client are the members of **The EECS Graduate Program**.

The application is broken down into three user levels: *Administrator*, *Committee Member* and *Professor*. Each of the roles play a crucial part in order to select the best candidate into the graduate program. GradApps 2.0 operates as a web application, hence, a reliable internet connection is required when interacting with the application.

## 1.2 Organization of the Manual

The users manual consists of eight sections:

- **General Information** section explains in general terms the system and the purpose for which it is intended.
- **System Summary** section provides a general overview of the system. The summary outlines the uses of the systems hardware and software requirements, systems configuration, user access levels and systems behavior in case of any contingencies.
- **Getting Started** section explains how to get GradApps 2.0 and install to have it up and running. This section is solely for administrative uses.
- **Using The System** section provides a detailed description of the common system functions.
- **Administrator Use** section provides a detailed description of the administrator system functions.
- **Committee Member Use** section provides a detailed description of the committee member system functions.

- **Professor Use** section provides a detailed description of the professor system functions.
- **Help** section provides the contact information for further help on using the application.

## 2 System Summary

System Summary section provides a general overview of the system. The summary outlines the uses of the system's hardware and software requirements, systems configuration, user access levels and systems behavior in case of any contingencies.

### 2.1 System Configuration

#### 2.1.1 Browser Configuration

GradApps 2.0 operates as a web interface application. It supports all modern web browser, however, Chrome and Mozilla Firefox are the recommended browser for using the application. The application is recommended to be only used through desktop browsers.

**Recommended Browser(s):**

- **Chrome:**  $\geq$  Chrome v60.0.3112
- **Mozilla Firefox:**  $\geq$  Firefox 57 (v57.0a1)

#### 2.1.2 Node.js Configuration

GradApps 2.0 is built using Node.js and it is vital to use the correct version of the node package manager (npm) and the node.

**Recommended Node.js version:**

- **Node:**  $\geq$  v8.9.4
- **NPM:**  $\geq$  5.6.0

#### 2.1.3 MySQL Configuration

GradApps 2.0 uses MySQL commercial database as the datasource manager.

**Recommended MySQL version:**  $\geq$  5.7.20

The following environmental variables are required to be set prior to starting the application.

- **MYSQL\_HOST:** the host name of the database server

- **MYSQL\_PORT**: the port number of the database server
- **MYSQL\_USER**: the user name to access the database
- **MYSQL\_PASSWORD**: the password to access the database
- **MYSQL\_DATABASE**: the database name (optional)

**Note:** The default database name for the application is *gradapps*. However, any customized database name can be set by using the environmental variable mentioned above.

#### **2.1.4 Other Configuration**

The default port for the application web server is 3000. However, it can be set to one of your choice by enabling the PORT environmental variable.

### **2.2 User Access Levels**

Only registered users can use the application. The user access levels for the three different user roles are discussed further in the document for each role.

### **2.3 Contingencies**

In case of power outage or unexpected shutdown of the web server, the application will stop working and any unsaved data will be lost. It is recommended for users to save data frequently to avoid such losses.

### 3 Getting Started

Getting Started section explains how to get GradApps 2.0 on the machine, install it and start the application. Please note this section is solely for the system administrator's who will maintain the application.

To install the application, it has to be pulled from the private GitHub repository as it is not a published application for other uses.

To clone the repository in the server machine, please make sure Git is installed in the machine. Along with Git, all the above configuration mentioned in Section 2.1 must be installed.

**Recommended Git version:**  $\geq 2.3.2$

1. Git clone the repository in the current working directory, run the following command:

```
$ git clone https://github.com/ssh24/EECS4090-Project.git
```

2. Change the working directory to the source of the project:

```
$ cd EECS4090-Project/src/
```

3. Install the required dependencies:

```
$ npm install
```

4. Set the required environmental variables:

```
$ SET MYSQLHOST = <host>
$ SET MYSQLPORT = <port>
$ SET MYSQLUSERNAME = <username>
$ SET MYSQLPASSWORD = <password>
$ SET MYSQLDATABASE = <database>
$ SET PORT = <app_port>
```

5. Seed the database:

```
$ npm run seed:app
```

6. Start the application server:

```
$ npm start
```

7. The application can then be accessed at port 3000 or the one set by you using the environmental variable. To access the application locally, go to `http://localhost:<app_port>`.

**Note:** In order for the application be accessible from outside, the application port need to be set open. Once it is set open, the application can be accessed from anywhere it an internet in the following way: `http://<app_host>:<app_port>`.



## 4 Using The System

section provides a detailed description of the common system functions. Common system functions are functionality that are available to all users who has access to the system. The list of common system functions are listed below:

### 4.1 Logging In

To access the gradapps portal you'll first need to be authenticated into the system. To begin simply click on the "Sign In" button on the welcome page.

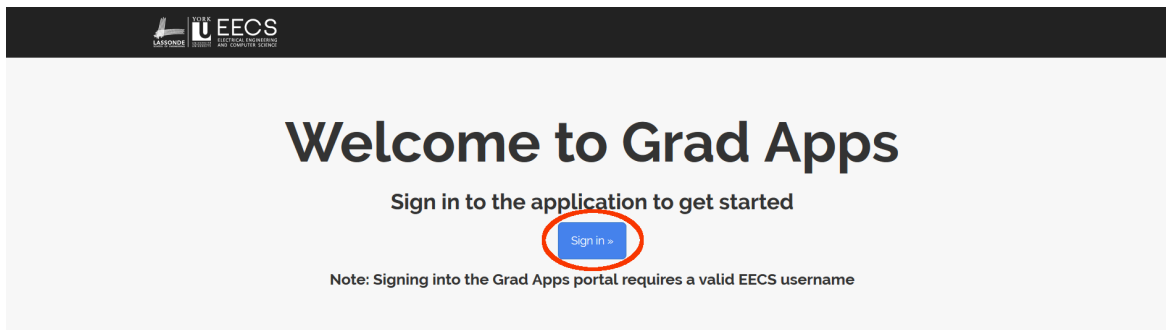


Figure 1: Welcome Page

You will then be redirected to the login page. Input your username, password and click on the "Login" button. If you are successfully authenticated you will be redirected to the role selection page.

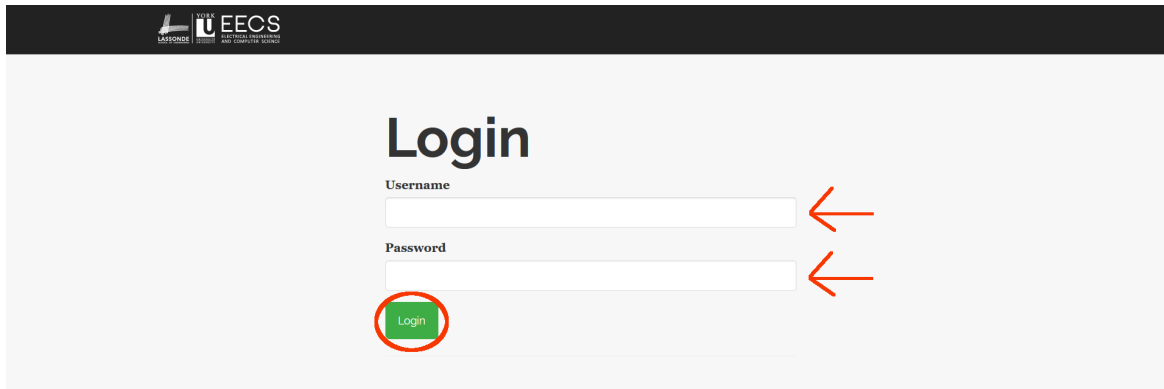
A screenshot of the login page for the EECS system. The page has a dark header with the EECS logo and the text 'EECS' and 'TECHNOLOGY, ENGINEERING, AND COMPUTER SCIENCE'. Below the header, the word 'Login' is displayed in a large, bold font. Underneath, there are two input fields: 'Username' and 'Password'. To the right of each input field is a red arrow pointing left. Below the 'Password' field is a green 'Login' button, which is circled in red.

Figure 2: Login Page

**Note:** If the credentials you have provided are invalid you will be greeted with an error message.

## 4.2 Selecting a Role

The subsections below describe the methods for selecting the a role.

### 4.2.1 Role Selection Page

From the role selection page click on the “Continue as Committee Member” button to be redirected to the committee member portal.

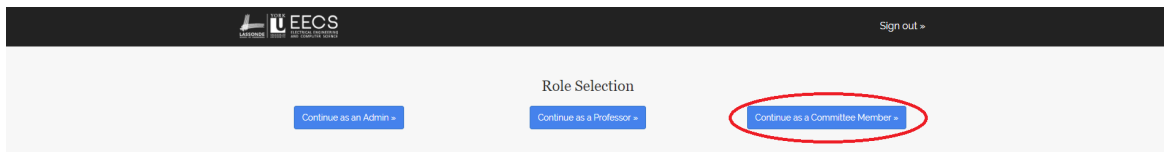
A screenshot of the role selection page. The page has a dark header with the EECS logo and the text 'EECS' and 'TECHNOLOGY, ENGINEERING, AND COMPUTER SCIENCE'. Below the header, the text 'Role Selection' is centered. Underneath, there are three blue buttons: 'Continue as an Admin', 'Continue as a Professor', and 'Continue as a Committee Member'. The 'Continue as a Committee Member' button is circled in red.

Figure 3: Role Selection Page

**Note:** To access the administrator/committee/professor portal you must be granted access from an administrator.

### 4.2.2 Navigation Bar

If you have selected another role and wish to switch roles you will be presented with an option on the navigation bar. Click on the dropdown menu that displays your current role and click on your desired role.

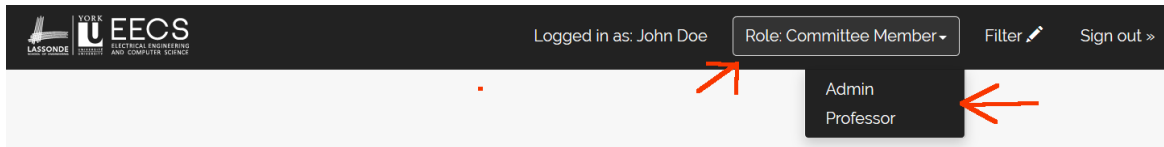


Figure 4: Switch Roles

**Note:** To access the administrator/committee/professor portal you must be granted access from an administrator.

### 4.3 User Settings

To customize personal user settings, simply click on the “Settings” button from the navigation bar on any page. The following are the required fields when update personal user settings:

- Username
- Last Name
- First Name
- Email

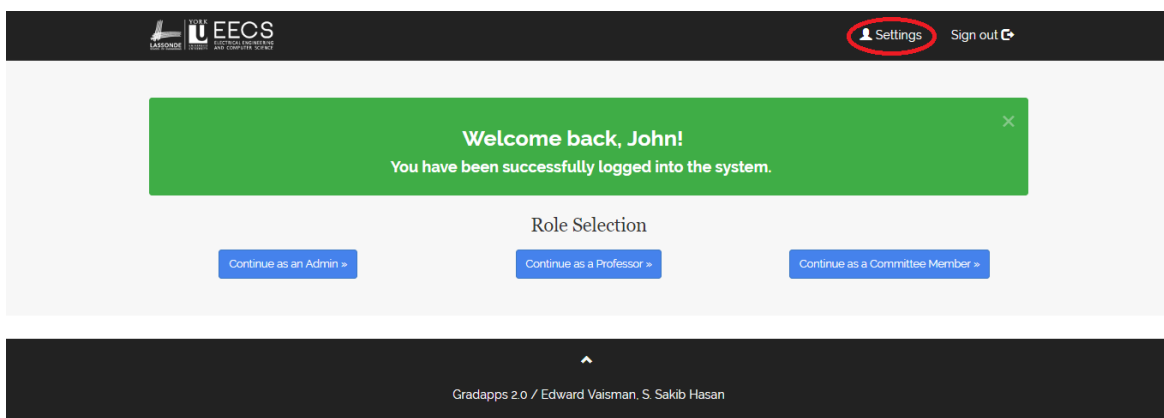


Figure 5: Open User Settings

### User Settings

#### Login Information

Username*	New Password	Confirm New Password
<input type="text" value="admin"/>	<input type="text" value="New Password"/>	<input type="text" value="Confirm Password"/>

#### General Information

Last Name*	First Name*	Email*
<input type="text" value="Doe"/>	<input type="text" value="John"/>	<input type="text" value="john_doe@example.com"/>

#### User Information

Field(s) of Specialization

#### User Filter Preset(s)

Admin Preset	Committee Member Preset	Professor Preset
<input type="text" value="Admin Preset(s)"/>	<input type="text" value="Committee Member Preset(s)"/>	<input type="text" value="Professor Preset(s)"/>

All fields with \* are required

Figure 6: User Settings Form

## 4.4 Logging Out

To logout of the system, simply click on the “Sign out” button from the navigation bar on any page.

**Note:** Idleness in the system for a maximum of 15 minute will cause the user session to be automatically terminated and the user will be logged out.

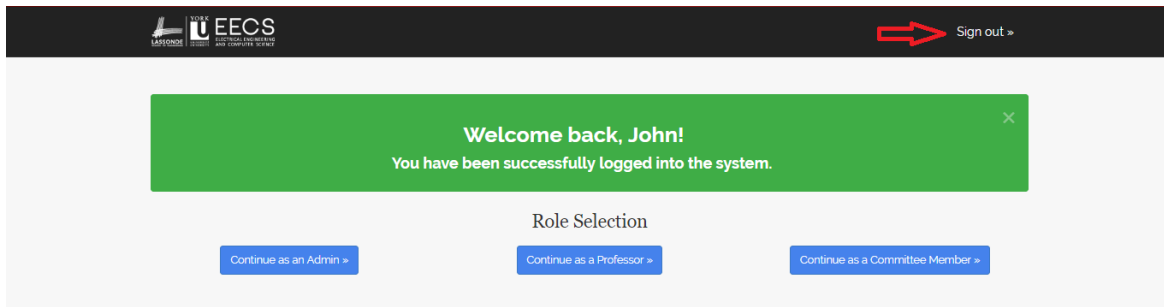


Figure 7: Logout of the System

## 5 Help

For further help or information please contact the Graduate Program Director (GPD) or the Graduate Program Assistant (GPA) of the EECS Graduate Program at Lassonde School of Engineering.

<b>Role</b>	<b>Name</b>	<b>Contact</b>
Graduate Program Director	Franck van Breugel	franck@eecs.yorku.ca
Graduate Program Assistant	Ouma Jaipaul-Gill	gradasst@eecs.yorku.ca