

## **Validation and Verification for Honors Application**

### Verification:

The plan for verification of the system is to continue referring to our requirements document as a way to check off implemented specifications of the system. Once we are sure that all of the requirements have been implemented we will need to test each side of the system individually and then the system as a whole. Testing the administrative side requires adding requirements and making sure they are ending up in the database correctly, querying the database for student statistics and verifying that they are correct, and testing the ability to update handbooks already in place. Testing the Android application will require testing that all combinations of handbook years and honors types is working smoothly without any hiccups. After each side has been tested the final step is to make sure that updates on the admin side are being reflected on the student side and vice versa.

### Validation:

The plan for validation is to do user testing of the system. Our system is a two part system and will thus require testing by each user type. The Android application will need to have a run through done by the students to ensure that the system is easy to follow and that it isn't missing any key features that they might need. We created our requirement document with our client's input only so this step will be very important to the success of the project as at this point we haven't had any true student input. The administrative side of the application will need to be tested by the main users of the system to make sure they have all the functionality they need and to also make sure the program is designed in a way they are comfortable with.

All of the code is hosted on GitHub at [https://github.com/stefprez/emu\\_honors\\_application.git](https://github.com/stefprez/emu_honors_application.git)

-can direct download with:

```
$ git clone https://github.com/stefprez/emu_honors_application.git
```

The Admin code is hosted on:

[http://db2.emich.edu/~201501\\_cosc481\\_group01/Source/AdminWebsite/](http://db2.emich.edu/~201501_cosc481_group01/Source/AdminWebsite/)

## Test Cases for Creating a New User

Test Case	Input	Expected Output
1.	Email: example@emich.edu Password: taco123 Confirm Password: taco123 First Name: Bob Last Name: Jo EID(numbers only):00918555 Handbook Year: 2013 Honors Type: University Expected Graduation: 2016 Major: Math Minor: none	A new user is created with all the correct fields filled in. No error is thrown.
2.	Email: Password: taco234 Confirm Password: taco234 First Name: Mik Last Name: Jager EID(numbers only): 00000000 Handbook Year: 2010 Honors Type: Highest Expected Graduation: 2015 Major: Music Minor:cosmetology	There is an error that is thrown because no email was provided.
3.	Email: damon@gmail.com Password: poop123 Confirm Password: poop123 First Name: Matt Last Name: Damon EID(numbers only): 12345678 Handbook Year: 1990 Honors Type: Departmental Expected Graduation: 1995 Major: Acting Minor: music	An error is thrown because the handbook year is not supported by the app.
4.	Email: email@email.edu Password: password Confirm Password: password First Name: First Last Name: Last EID(numbers only): E12345678 Handbook Year: 2015 Honors Type: university Expected Graduation: 2020 Major: Underwater Basket Weaving Minor: Finger Painting	An error is thrown due to an invalid type for EID.
5.	Email: bob123@yahoo.com Password: edie	An error is thrown because the password fields do not

	Confirm Password: bobjo First Name: bobjo Last Name: edie EID(numbers only): 98745623 Handbook Year: 2012 Honors Type: full Expected Graduation: 2015 Major: polo Minor: water polo	match.
6.	Email: mine@yahoo.com Password: ir0ckh49d Confirm Password: ir0ckh49d First Name: Bob Last Name: Jim-Bob-Joe EID(numbers only): 22224444 Handbook Year: 2013 Honors Type: green Expected Graduation: 2017 Major: Science Minor: Math	An error is thrown due to invalid honors type.
7.	Email: anemail@emich.edu Password: 1234pass Confirm Password: 1234pass First Name: Cade Last Name: Taylor EID(numbers only): 01010203 Handbook Year: 2015 Honors Type: highest Expected Graduation: 2050 Major: Comp Sci Minor:	New user is created and put in system. No error is thrown.