Form Buster

Milestone 1

Client: **Dr. Philip Chan**
pkc@cs.fit.edu

Sponsor: **Dr. Eraldo Ribeiro**
eribeiro@cs.fit.edu

Grace Dolphy
gdolphy2015@my.fit.edu

Raphael Setin
rsetin2015@my.fit.edu

McNels Sylvestre
msylvestreph2016@my.fit.edu

Progress Matrix

Task	Completion %	Raphael	Grace	McNels	To do
1. Compare and select Technical Tools	100%	33.3%	33.3%	33.3%	None
2. Sample website & database	100%	33.3%	33.3%	33.3%	None
3. Resolve Technical Challenges	100%	33.3%	33.3%	33.3%	None
4. Compare and select Collaboration Tools	100%	33.3%	33.3%	33.3%	None
5. Requirement Document	100%	33.3%	33.3%	33.3%	None
6. Design Document	100%	33.3%	33.3%	33.3%	None
7. Test Plan	100%	33.3%	33.3%	33.3%	None

Technical Tools

- Firebase - easier, NoSQL vs DBMango
- HTML/CSS (standard tools)
- AngularJS vs Angular

Collaboration Tools Selected

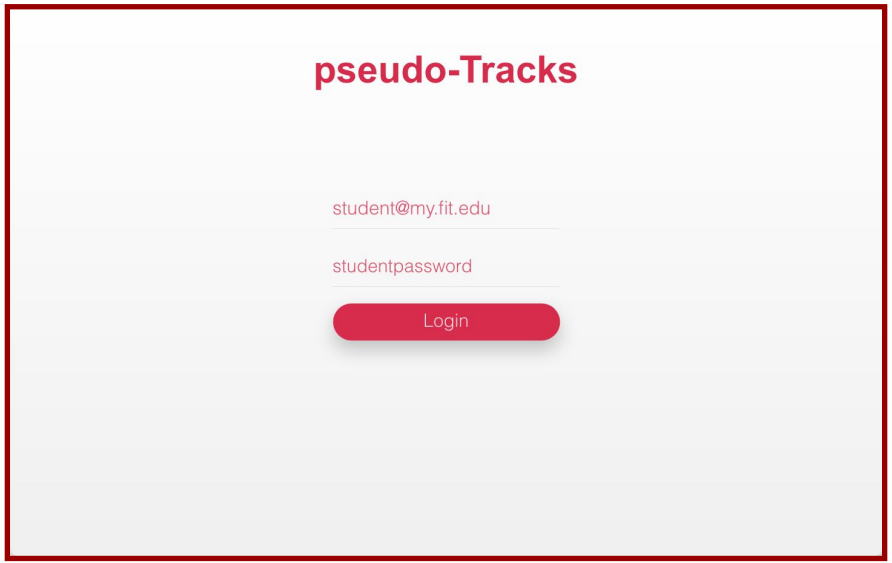
- Slack, Phone
- Github
- Google Drive and Docs
- Draw.io

Challenges

- Consistency and agreement on requirements.
- Working with AngularJS and Angular with little web development experience.
- Using a database system.

General Requirements

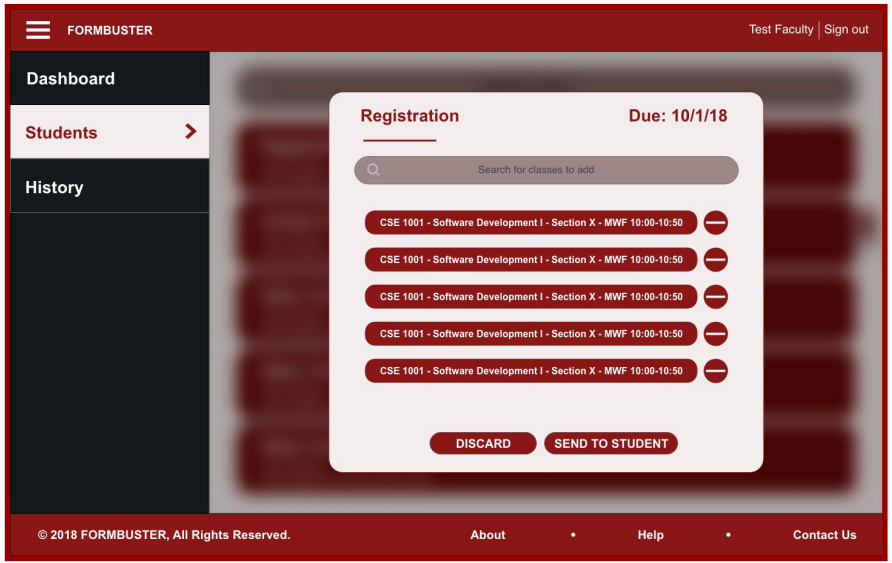
#GEN_001 Form Buster shall redirect a user that wants to login, to an authentication service where they will be prompted for their TRACKS ID and TRACKS password; authenticated users will be redirected back to their dashboard on Form Buster.



General Requirements

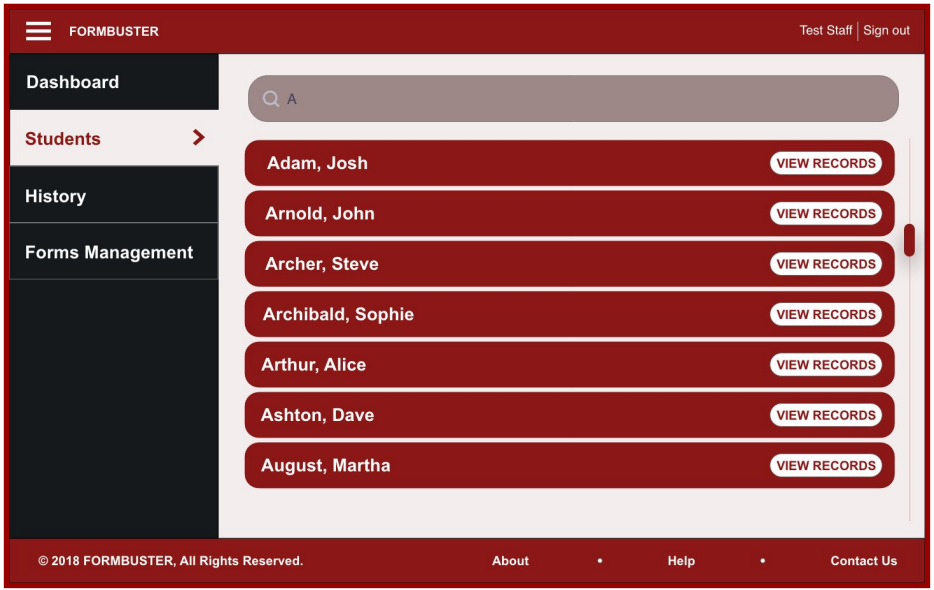
#GEN_004 Faculty members and student coordinators shall be able to start a new form for a student, by typing the student id or name, and then picking a form from a list.

#GEN_005 Form Buster shall not permit faculty members and student coordinators to submit forms on a student's behalf.



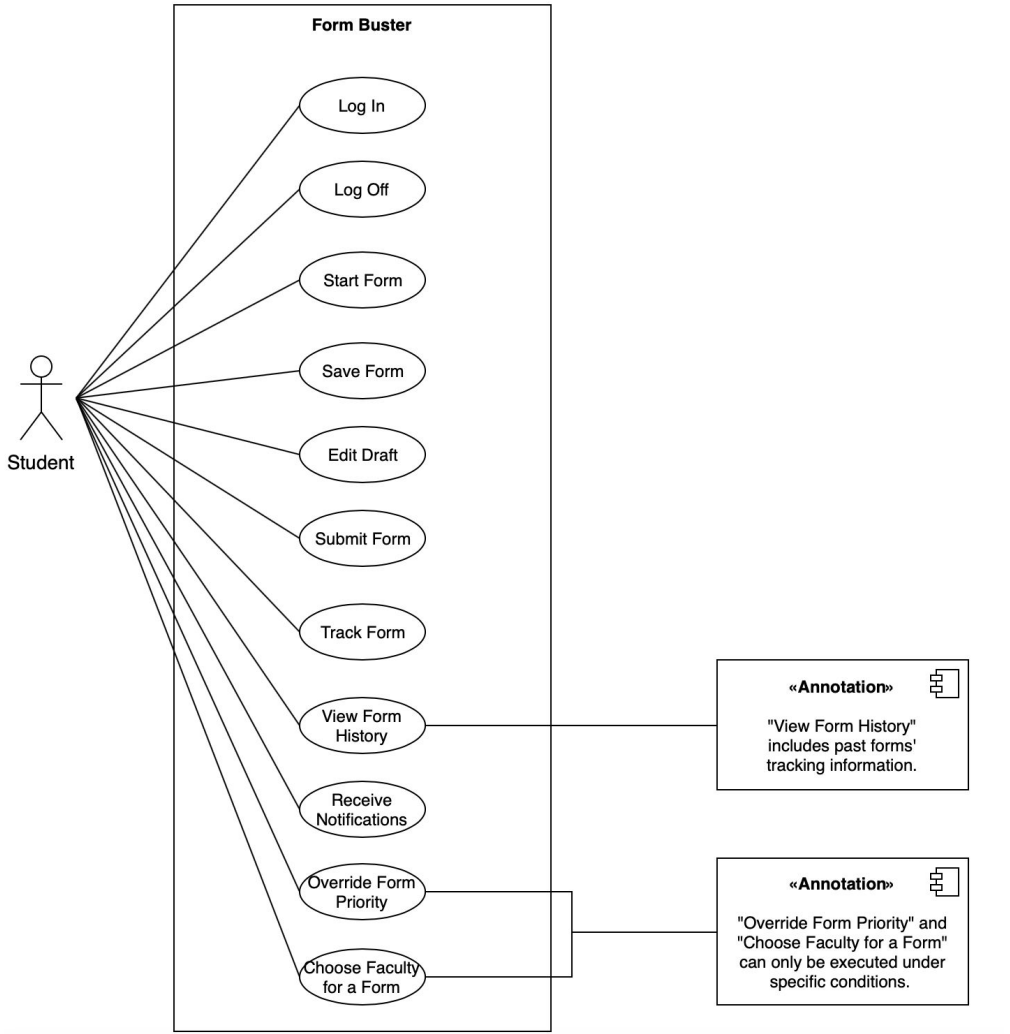
General Requirements

#GEN_006 Form Buster shall allow faculty members, student coordinators, and staff members to access all students' form history, by either searching the student's id or the student's name.



Staff's view

Student Use Case

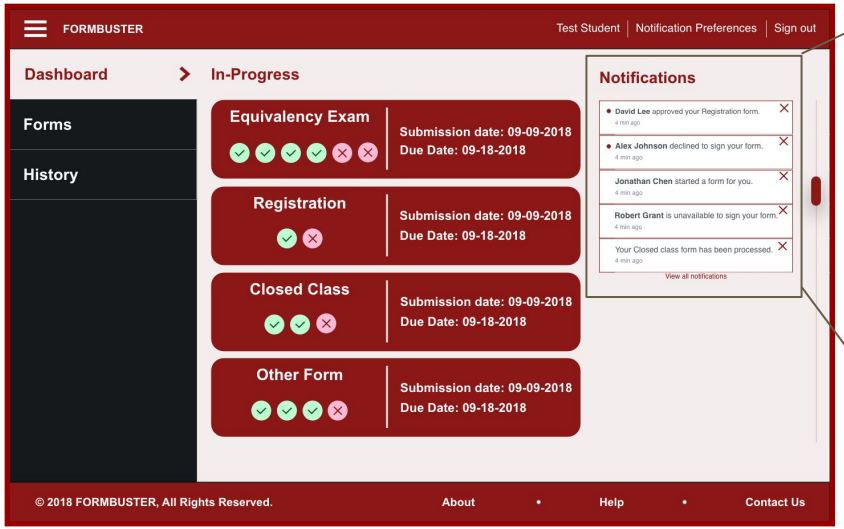


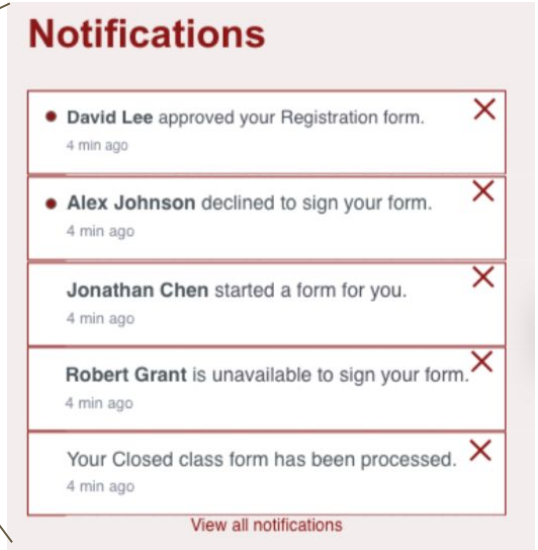
Student Requirements

#STU_021 Form Buster shall display in-progress forms on the student's dashboard, with the appropriate tracking information.

#STU_022 Form Buster shall display a student's notifications on the right side of their dashboard, with the received date and the "Read" mark.

Track form

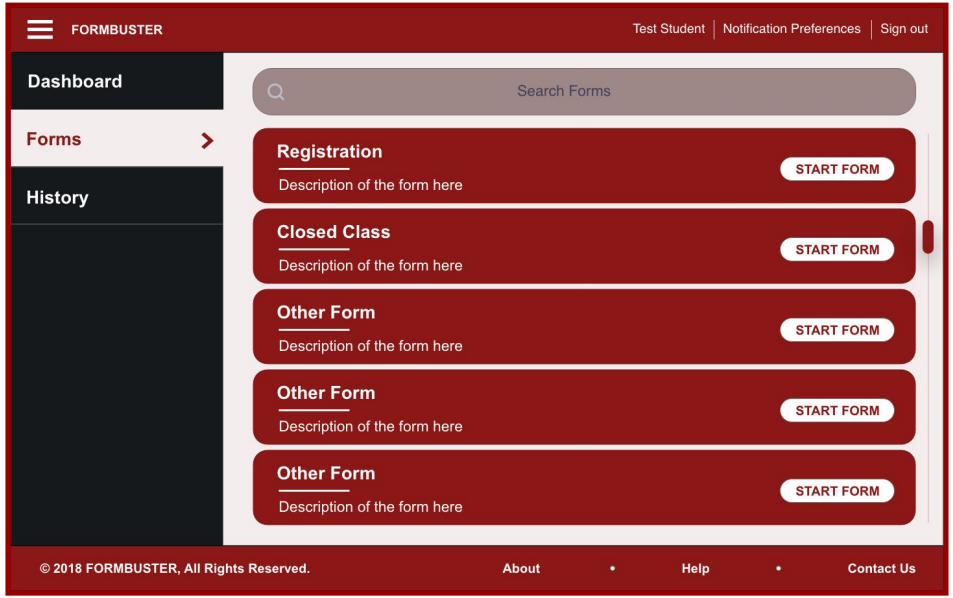




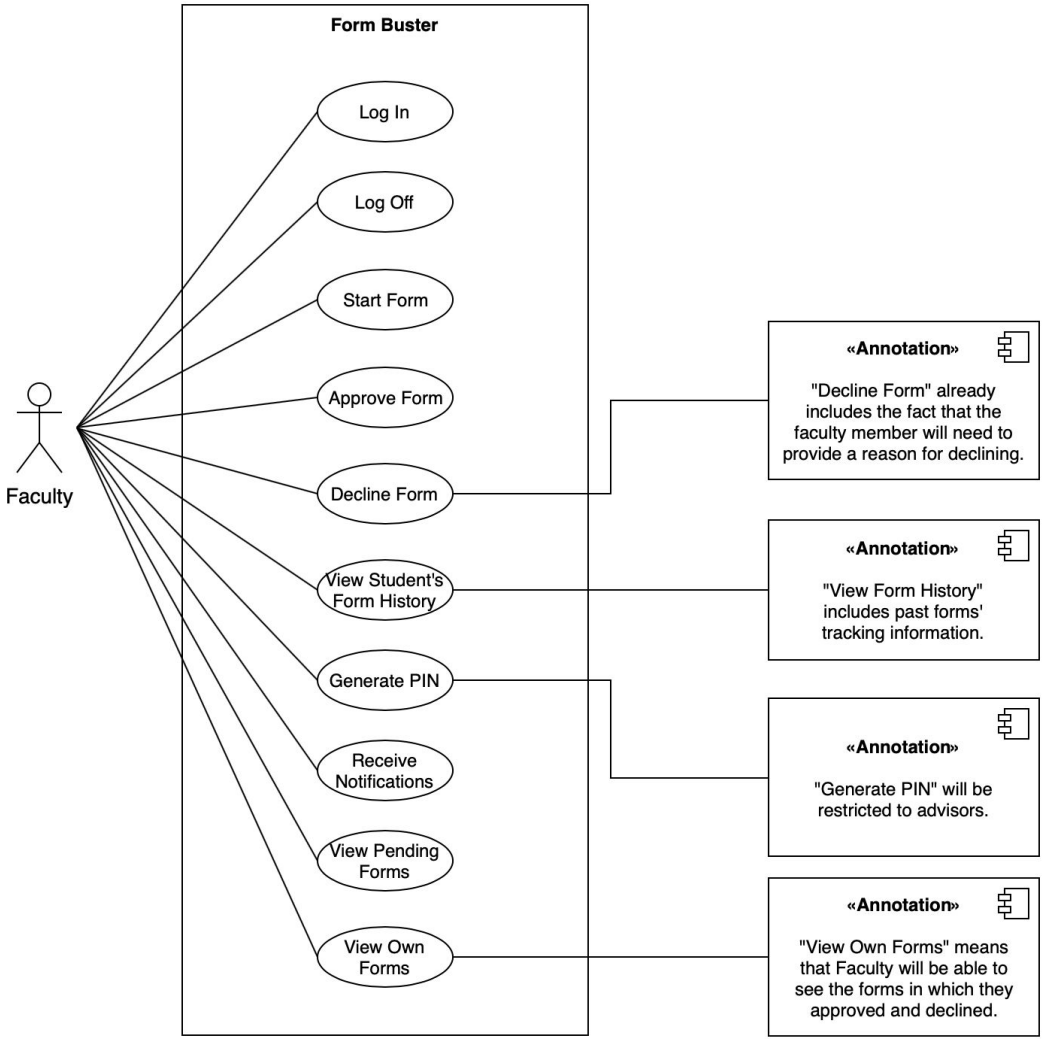
Receive Notification

Student Requirements

#STU_001 A student shall be able to start a new form.



Faculty Use Case

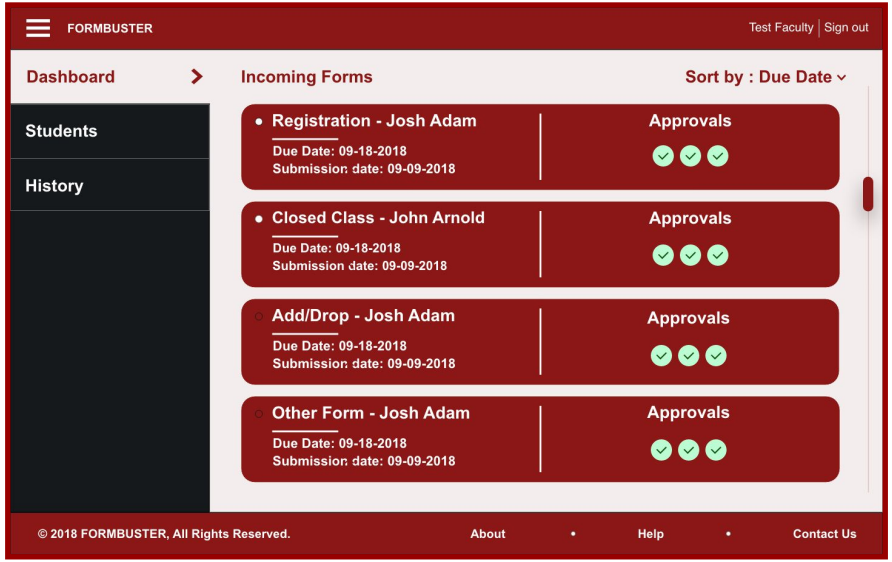


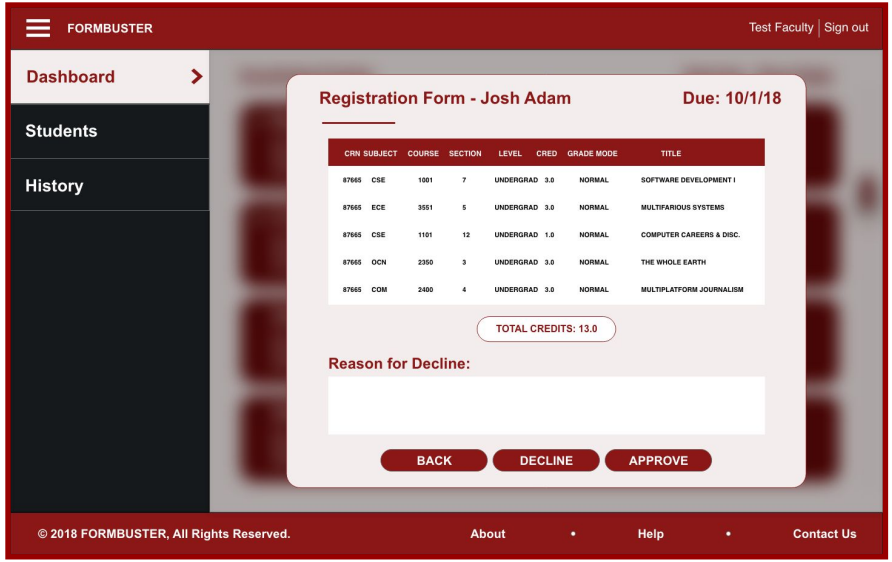
Faculty Requirements

#FAC_003 Form Buster shall allow a faculty member to see who has already approved a form.

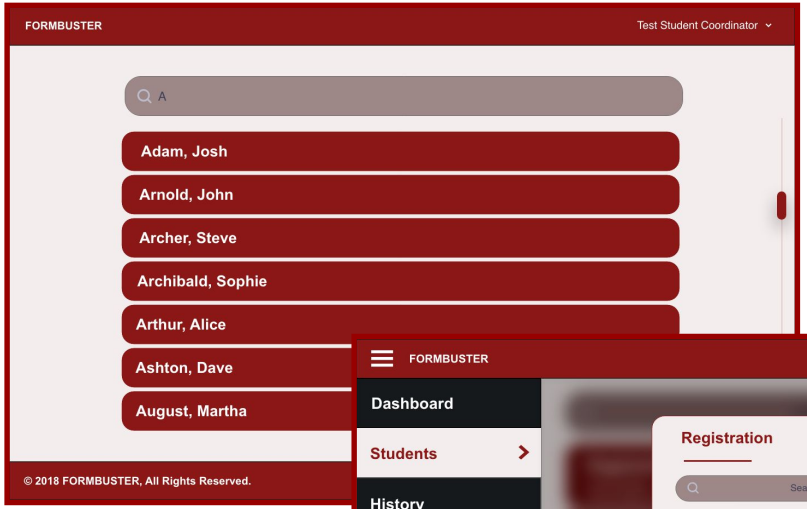
#FAC_007 Form Buster shall display pending forms in the dashboard, by deadline then by submission.

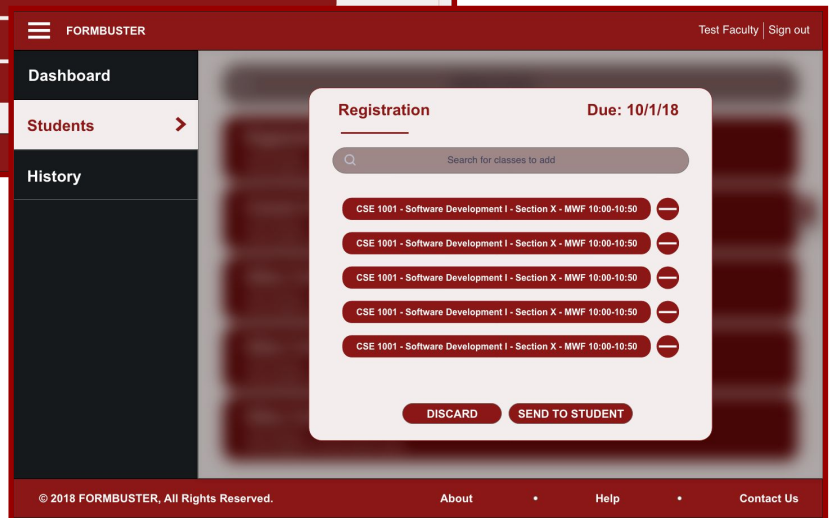
#FAC_004 Form Buster shall allow a faculty member to approve or decline (with a reason) a form, after the form is opened by the faculty member.

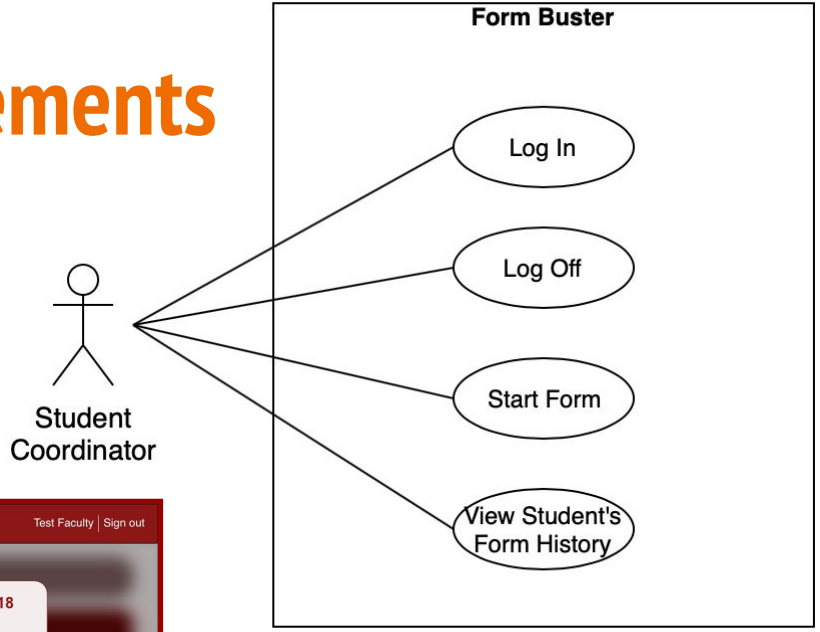




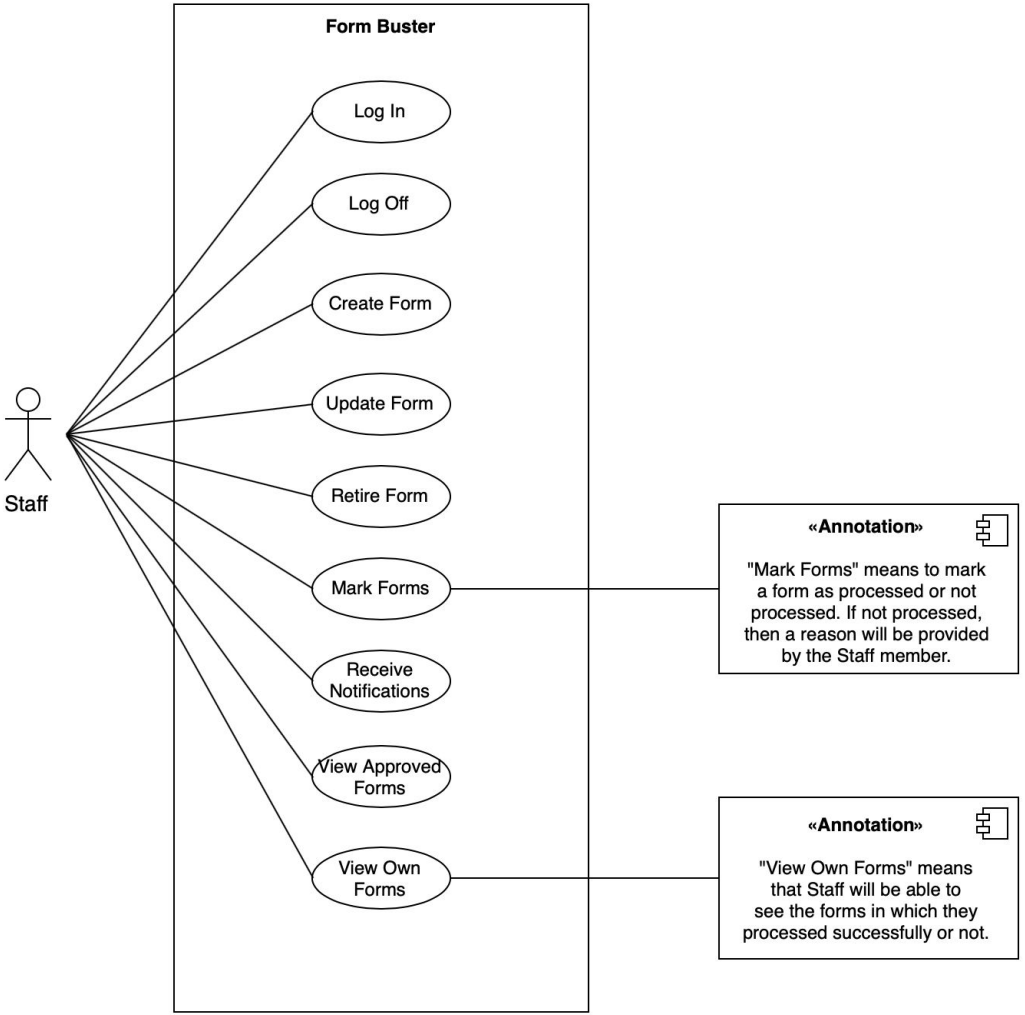
Student Coordinator Requirements







Staff Use Case
(Final Destination)

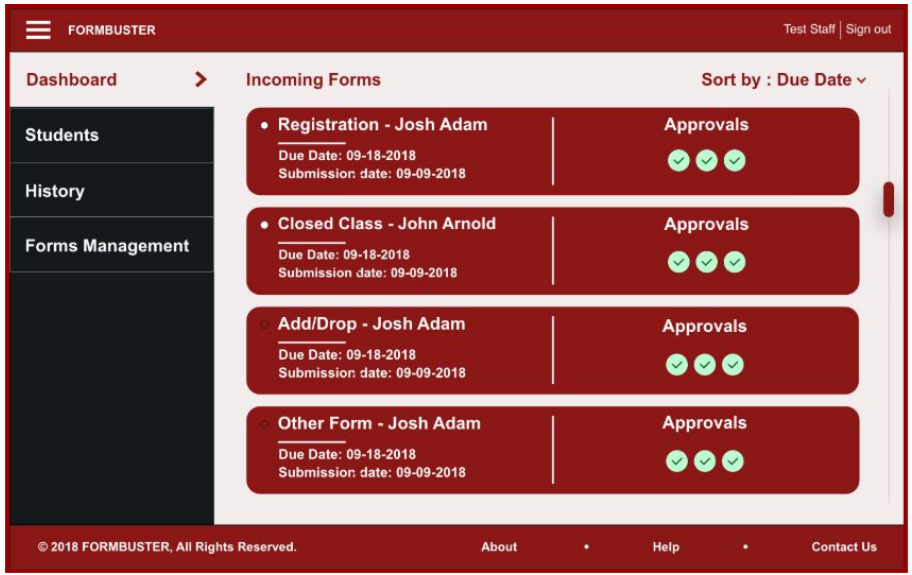


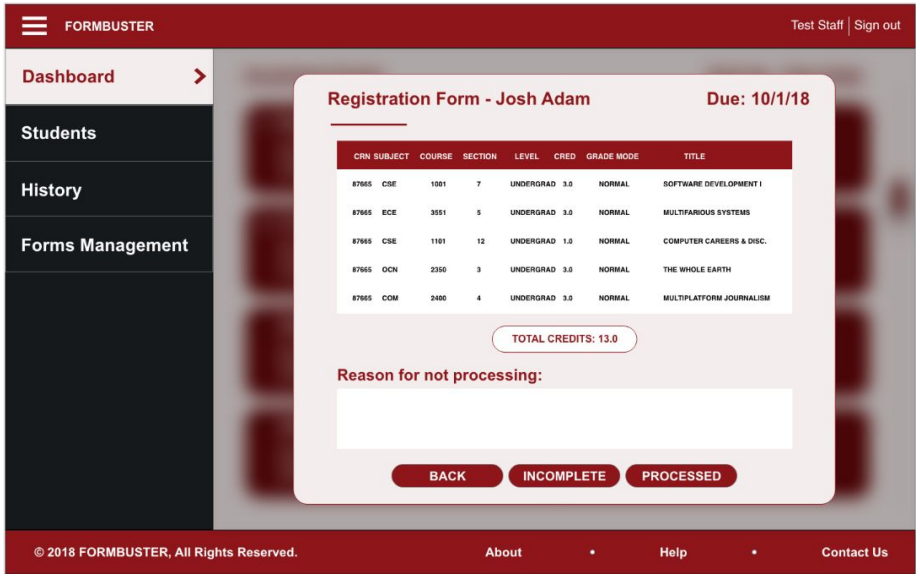
Staff (Final Destination) Requirements

#STA_004 Form Buster shall list the forms waiting for processing on the staff's dashboard.

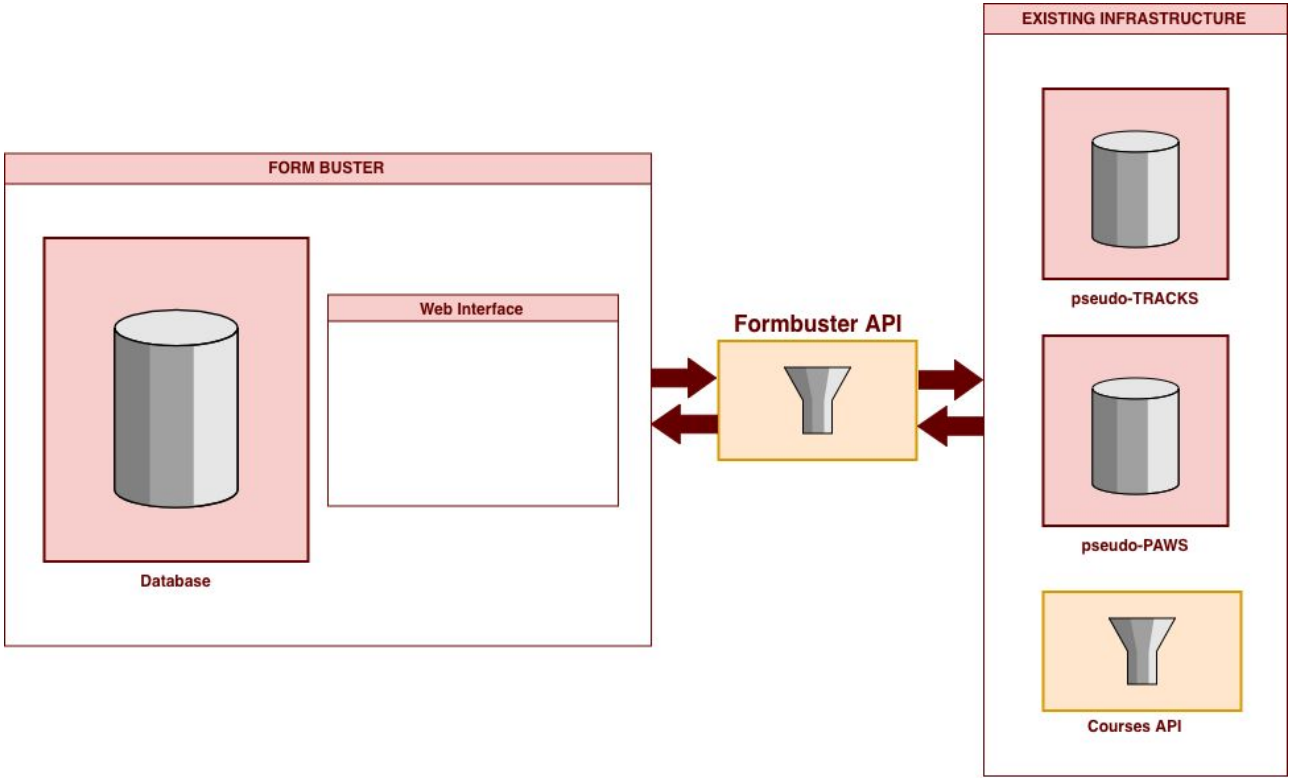
#STA_005 The staff member shall mark the form as either "processed" or "could not be processed".

#STA_006 A staff member shall provide a reason if they mark a form as "could not be processed".





System Architecture



Test Plan

- Test requirements in groups.
  - Too many requirements to test individually, timely
  - Requirements overlap

- Test important requirements and features first

Milestone 2

- Implement pseudo-TRACKS system
- Implement pseudo-PAWS database
- Implement Form Buster database
- Implement home page for the different categories of users
- Implement student records page
- Implement forms catalog page
- Implement form submission pages

References

1. **Form Buster Website**
   http://formbuster.me/

2. **Requirements Document**
   http://formbuster.me/requirement.pdf

3. **Design Document**
   http://formbuster.me/design.pdf

4. **Test Plan**
   http://formbuster.me/test.pdf

5. **Milestone 1 Progress Evaluation**
   http://formbuster.me/eval1.pdf

Questions?