
Form Buster

Milestone 1

Client:

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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

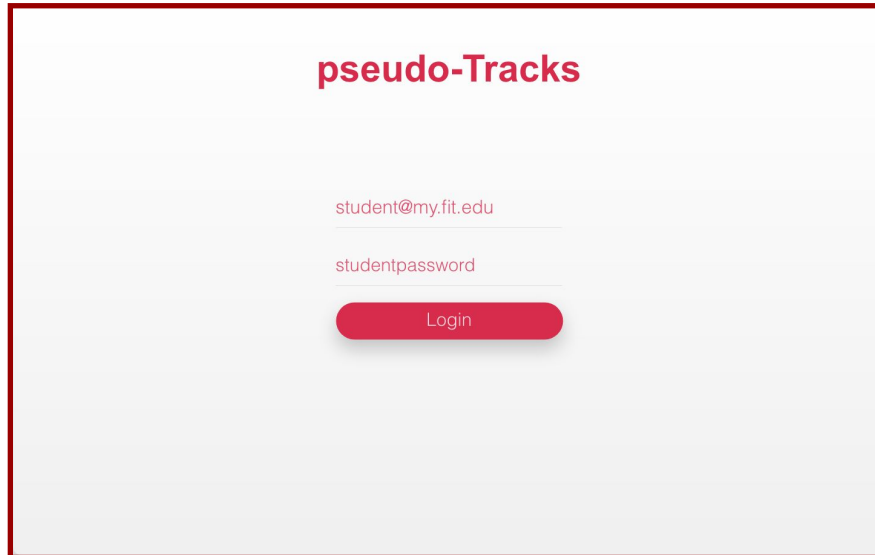
- Slack, Phone
- Github
- Google Drive and Docs
- Draw.io

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.



pseudo-Tracks

student@my.fit.edu

studentpassword

Login

General Requirements

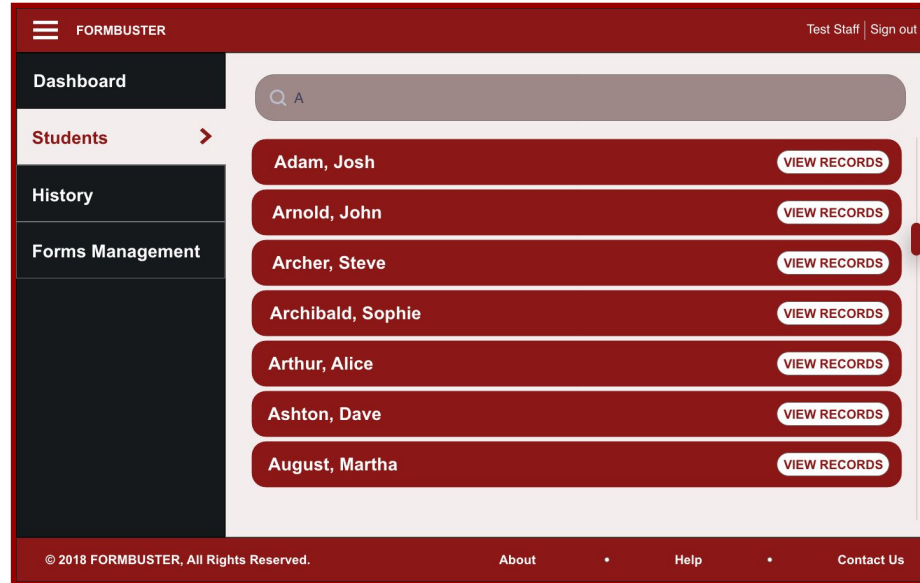
#GEN_004 Faculty members and student coordinators shall be able to start a new form for a student, by typing the student id or name, and then picking a form from a list.

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

The screenshot displays the FORMBUSTER web application. The interface has a dark red header with the 'FORMBUSTER' logo and a 'Test Faculty | Sign out' link. A dark sidebar on the left contains navigation links: 'Dashboard', 'Students' (highlighted with a red arrow), and 'History'. The main content area features a 'Registration' modal window with a 'Due: 10/1/18' deadline. Inside the modal, there is a search bar labeled 'Search for classes to add' and a list of five identical class entries: 'CSE 1001 - Software Development I - Section X - MWF 10:00-10:50'. Each entry has a red minus icon to its right. At the bottom of the modal are two buttons: 'DISCARD' and 'SEND TO STUDENT'. The footer of the application includes the copyright notice '© 2018 FORMBUSTER, All Rights Reserved.' and links for 'About', 'Help', and 'Contact Us'.

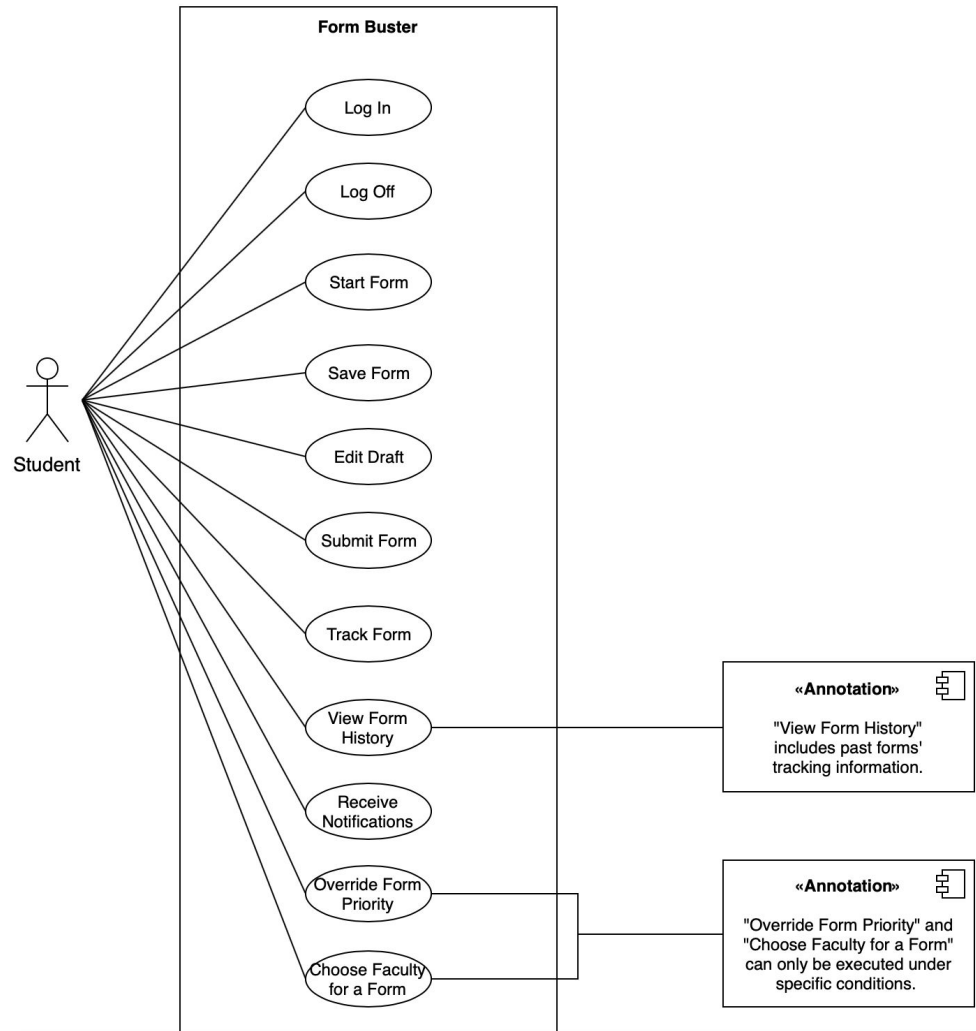
General Requirements

#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

The screenshot shows the FORMBUSTER dashboard for a 'Test Student'. The top navigation bar includes a menu icon, the text 'FORMBUSTER', and links for 'Test Student', 'Notification Preferences', and 'Sign out'. The main content area is divided into a left sidebar with 'Dashboard' (selected) and 'In-Progress' tabs, and a central list of forms. The forms are categorized into 'Forms' and 'History'. The 'In-Progress' section displays four form entries: 'Equivalency Exam', 'Registration', 'Closed Class', and 'Other Form'. Each entry shows a submission date of '09-09-2018' and a due date of '09-18-2018'. The 'Equivalency Exam' and 'Other Form' entries have five status icons (three green checkmarks and two red Xs). The 'Registration' entry has two status icons (one green checkmark and one red X). The 'Closed Class' entry has three status icons (two green checkmarks and one red X). A 'Notifications' sidebar is visible on the right, showing a list of notifications with a 'View all notifications' link at the bottom. The footer contains copyright information and links for 'About', 'Help', and 'Contact Us'.

Form Category	Form Name	Submission date	Due Date	Status
Forms	Equivalency Exam	09-09-2018	09-18-2018	3 Green, 2 Red X
	Registration	09-09-2018	09-18-2018	1 Green, 1 Red X
	Closed Class	09-09-2018	09-18-2018	2 Green, 1 Red X
	Other Form	09-09-2018	09-18-2018	3 Green, 2 Red X

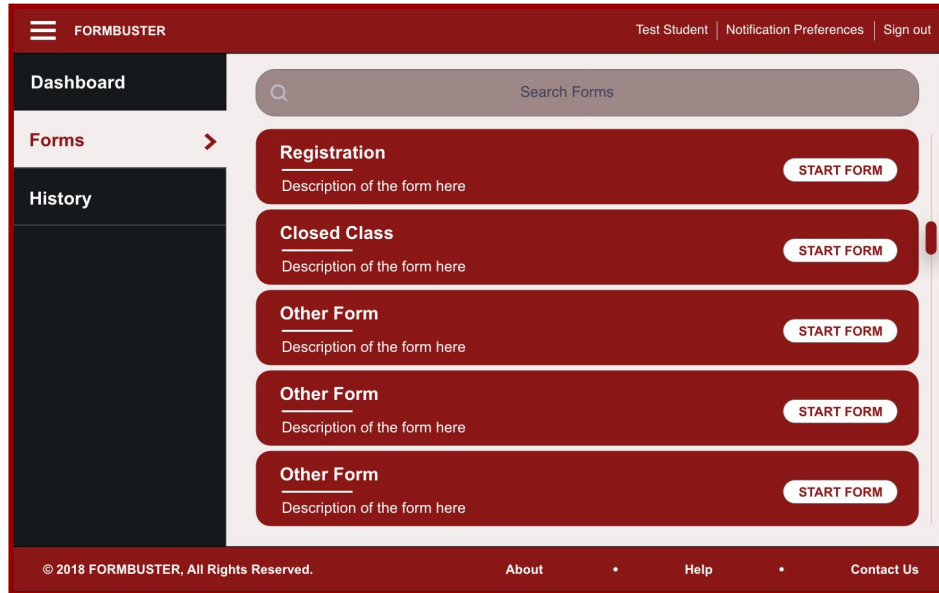
This block provides a detailed view of the 'Notifications' sidebar. It features a title 'Notifications' and a list of five notification items, each with a red X icon in the top right corner. The notifications are: 'David Lee approved your Registration form.' (4 min ago), 'Alex Johnson declined to sign your form.' (4 min ago), 'Jonathan Chen started a form for you.' (4 min ago), 'Robert Grant is unavailable to sign your form.' (4 min ago), and 'Your Closed class form has been processed.' (4 min ago). A 'View all notifications' link is located at the bottom of the sidebar.

Notification	Time
David Lee approved your Registration form.	4 min ago
Alex Johnson declined to sign your form.	4 min ago
Jonathan Chen started a form for you.	4 min ago
Robert Grant is unavailable to sign your form.	4 min ago
Your Closed class form has been processed.	4 min ago

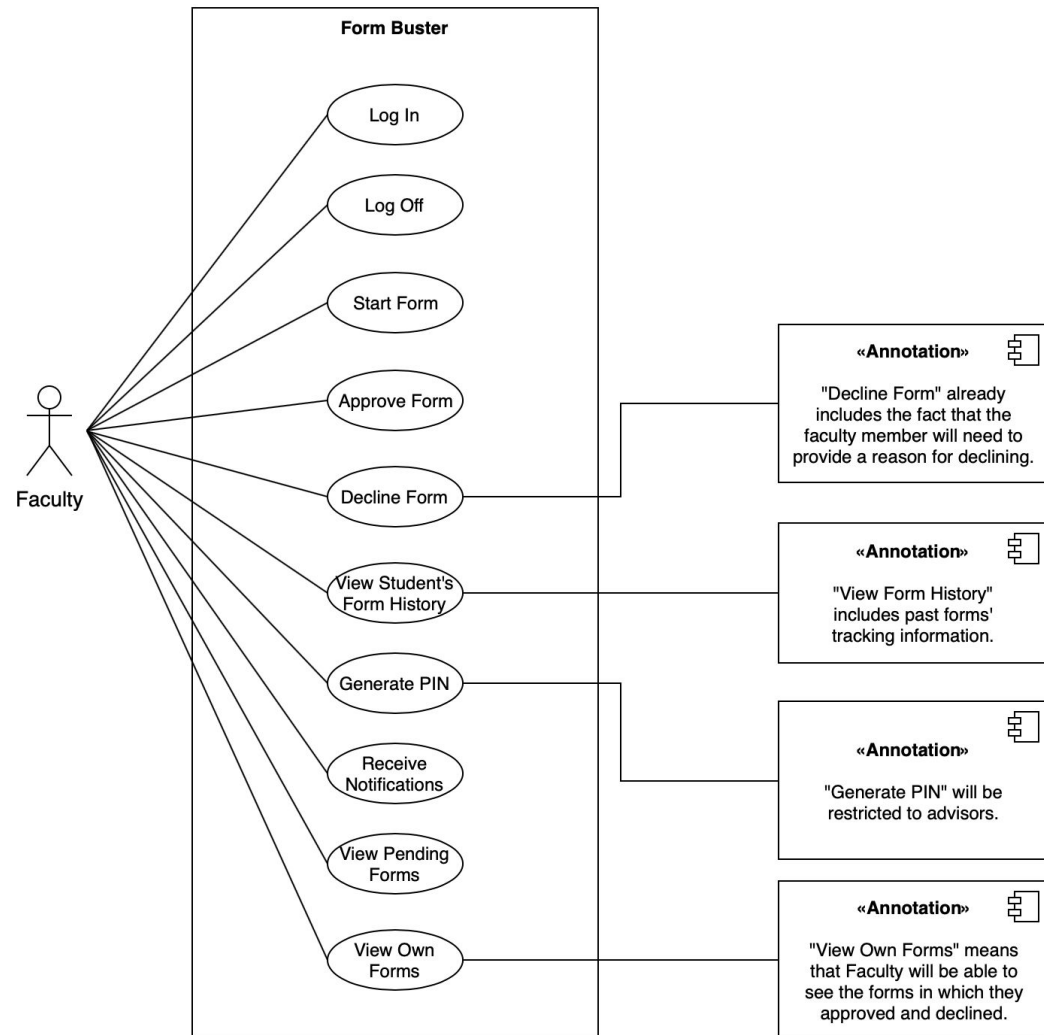
Receive Notification

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.

The screenshot shows the FormBuster dashboard for a faculty member. The header includes a hamburger menu, the text 'FORMBUSTER', and a link to 'Sign out'. The main content area is titled 'Incoming Forms' and features a 'Sort by : Due Date' dropdown. A sidebar on the left contains links for 'Students' and 'History'. The main area displays four form entries, each with a title, due date, submission date, and three green checkmarks under the 'Approvals' column.

Form Title	Due Date	Submission date	Approvals
Registration - Josh Adam	09-18-2018	09-09-2018	3
Closed Class - John Arnold	09-18-2018	09-09-2018	3
Add/Drop - Josh Adam	09-18-2018	09-09-2018	3
Other Form - Josh Adam	09-18-2018	09-09-2018	3

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The screenshot shows the FormBuster dashboard for a faculty member, displaying the details of a 'Registration Form - Josh Adam' due on 10/1/18. The form is shown in a modal window. The form details include a table with columns: C/N, SUBJECT, COURSE, SECTION, LEVEL, CRED, GRADE MODE, and TITLE. Below the table, the total credits are listed as 13.0. At the bottom, there is a 'Reason for Decline' text area and three buttons: BACK, DECLINE, and APPROVE.

C/N	SUBJECT	COURSE	SECTION	LEVEL	CRED	GRADE MODE	TITLE
87665	CSE	1001	7	UNDERGRAD	3.0	NORMAL	SOFTWARE DEVELOPMENT I
87665	ECE	3551	5	UNDERGRAD	3.0	NORMAL	MULTIFARIOUS SYSTEMS
87665	CSE	1101	12	UNDERGRAD	1.0	NORMAL	COMPUTER CAREERS & DISC.
87665	OCN	2350	3	UNDERGRAD	3.0	NORMAL	THE WHOLE EARTH
87665	COM	2400	4	UNDERGRAD	3.0	NORMAL	MULTIPLATFORM JOURNALISM

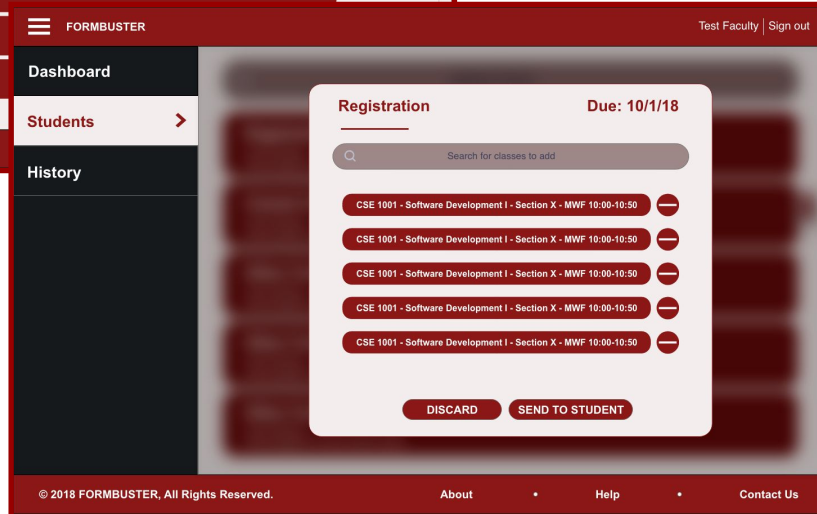
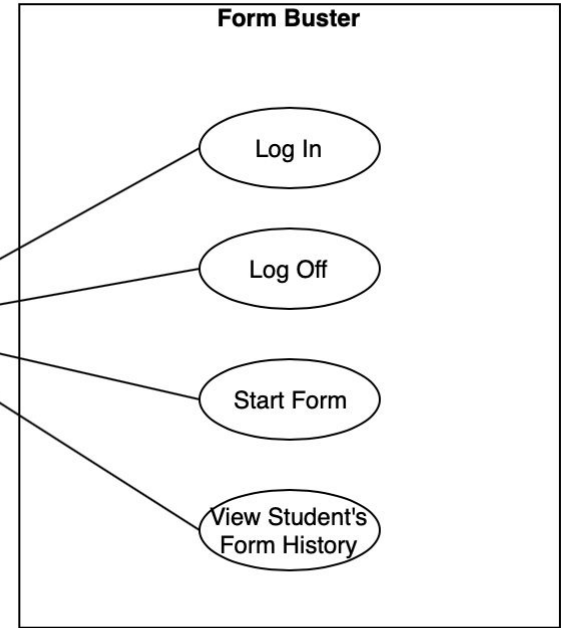
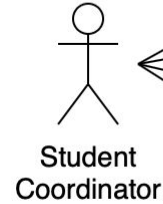
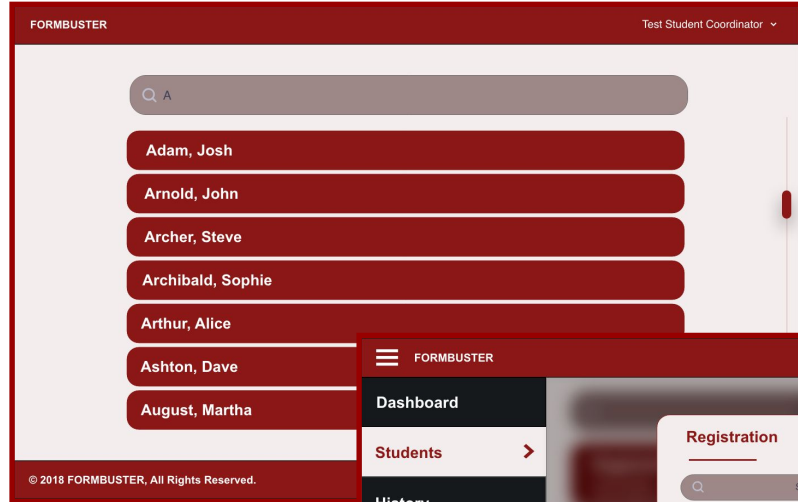
TOTAL CREDITS: 13.0

Reason for Decline:

BACK DECLINE APPROVE

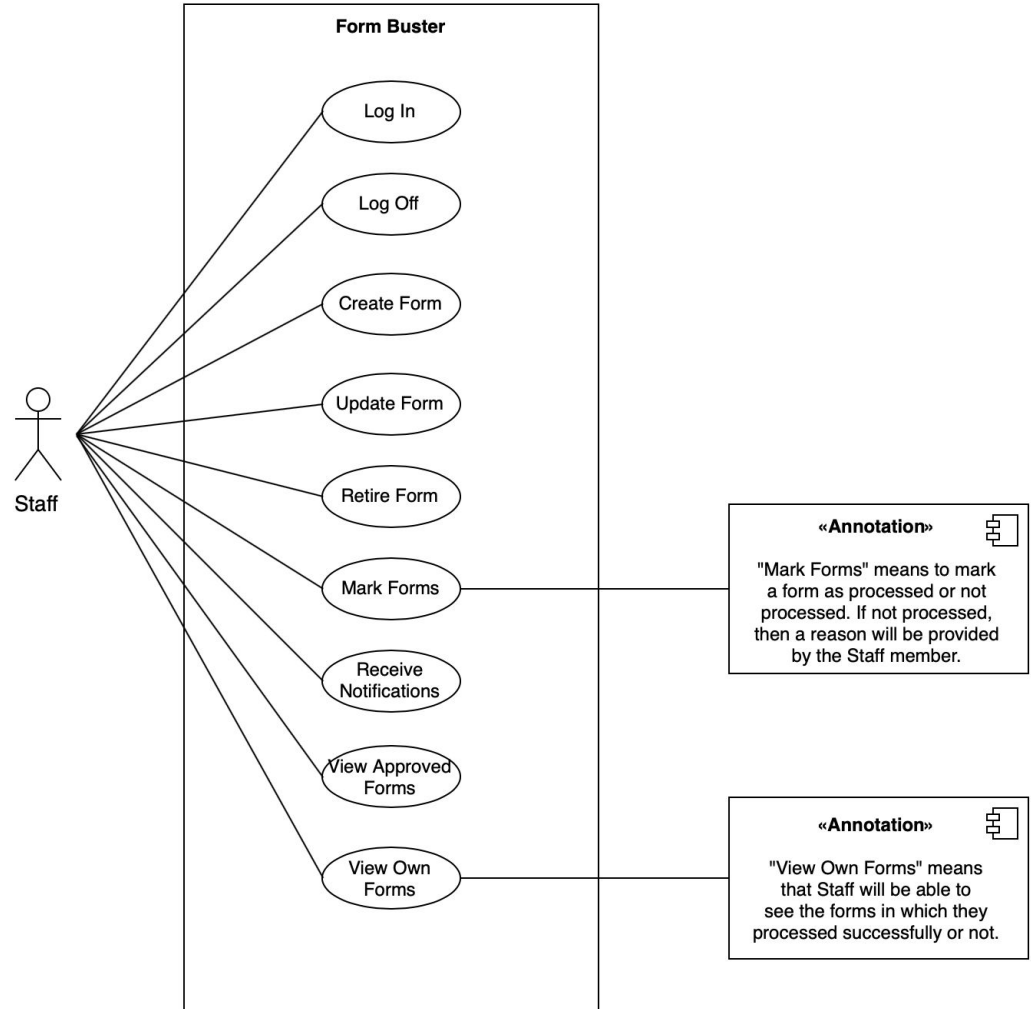
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Student Coordinator Requirements



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”.

The screenshot shows the FORMBUSTER dashboard for a staff member. The header includes a hamburger menu, the text 'FORMBUSTER', and links for 'Test Staff' and 'Sign out'. The main content area has a sidebar with 'Students', 'History', and 'Forms Management'. The main panel is titled 'Incoming Forms' with a 'Sort by : Due Date' dropdown. It displays four form entries, each with a title, due date, submission date, and three green checkmarks under the 'Approvals' column.

Form Title	Due Date	Submission date	Approvals
Registration - Josh Adam	09-18-2018	09-09-2018	✓✓✓
Closed Class - John Arnold	09-18-2018	09-09-2018	✓✓✓
Add/Drop - Josh Adam	09-18-2018	09-09-2018	✓✓✓
Other Form - Josh Adam	09-18-2018	09-09-2018	✓✓✓

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The screenshot shows the FORMBUSTER dashboard for a staff member, displaying a detailed view of a 'Registration Form - Josh Adam'. The header includes a hamburger menu, the text 'FORMBUSTER', and links for 'Test Staff' and 'Sign out'. The main content area has a sidebar with 'Students', 'History', and 'Forms Management'. The main panel shows the form details, including a table of courses and a 'Reason for not processing' section.

CRN	SUBJECT	COURSE	SECTION	LEVEL	CRED	GRADE MODE	TITLE
87655	CSE	1001	7	UNDERGRAD	3.0	NORMAL	SOFTWARE DEVELOPMENT I
87655	ECE	3551	5	UNDERGRAD	3.0	NORMAL	MULTIFARIOUS SYSTEMS
87655	CSE	1101	12	UNDERGRAD	1.0	NORMAL	COMPUTER CAREERS & DISC.
87655	OCN	2350	3	UNDERGRAD	3.0	NORMAL	THE WHOLE EARTH
87655	COM	2480	4	UNDERGRAD	3.0	NORMAL	MULTIPLATFORM JOURNALISM

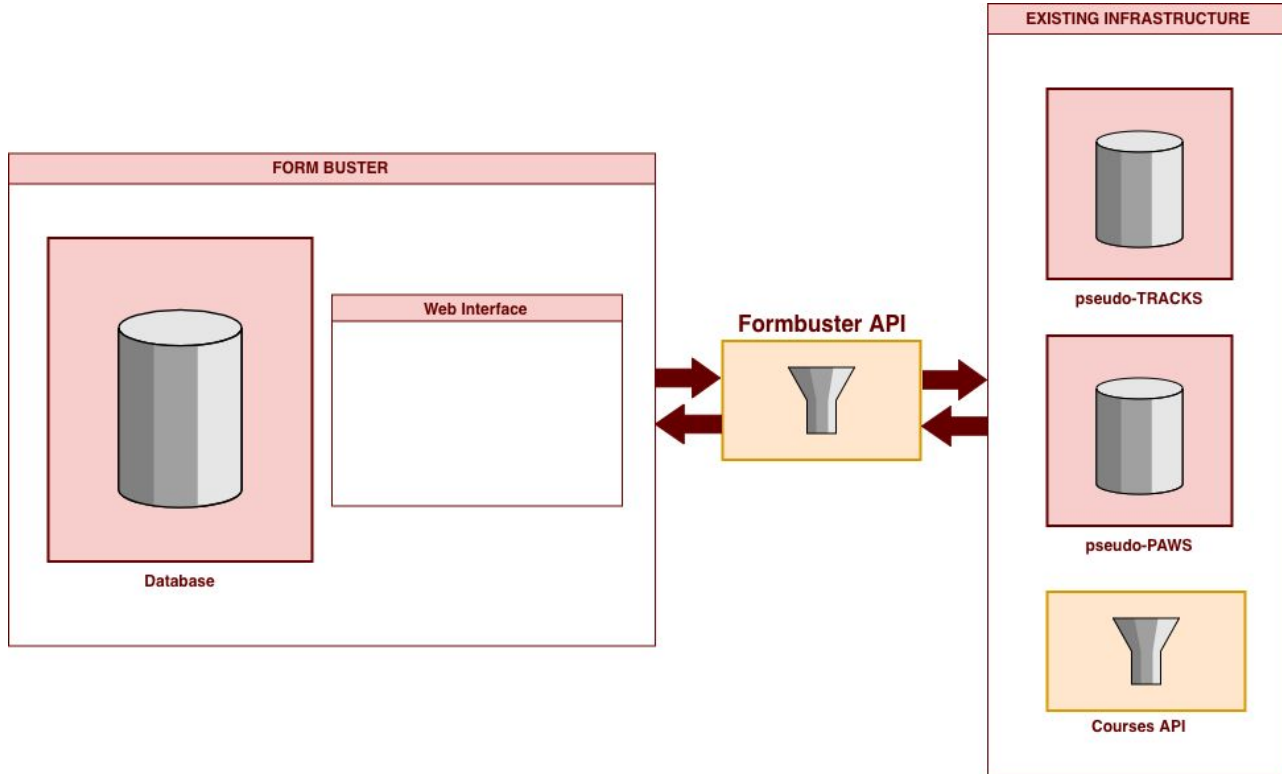
TOTAL CREDITS: 13.0

Reason for not processing:

BACK INCOMPLETE PROCESSED

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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
-

Demo

FormBuster

Added the default app by g

How to use Windows 10's C

localhost:4200/

Welcome to FormBuster!

Username:

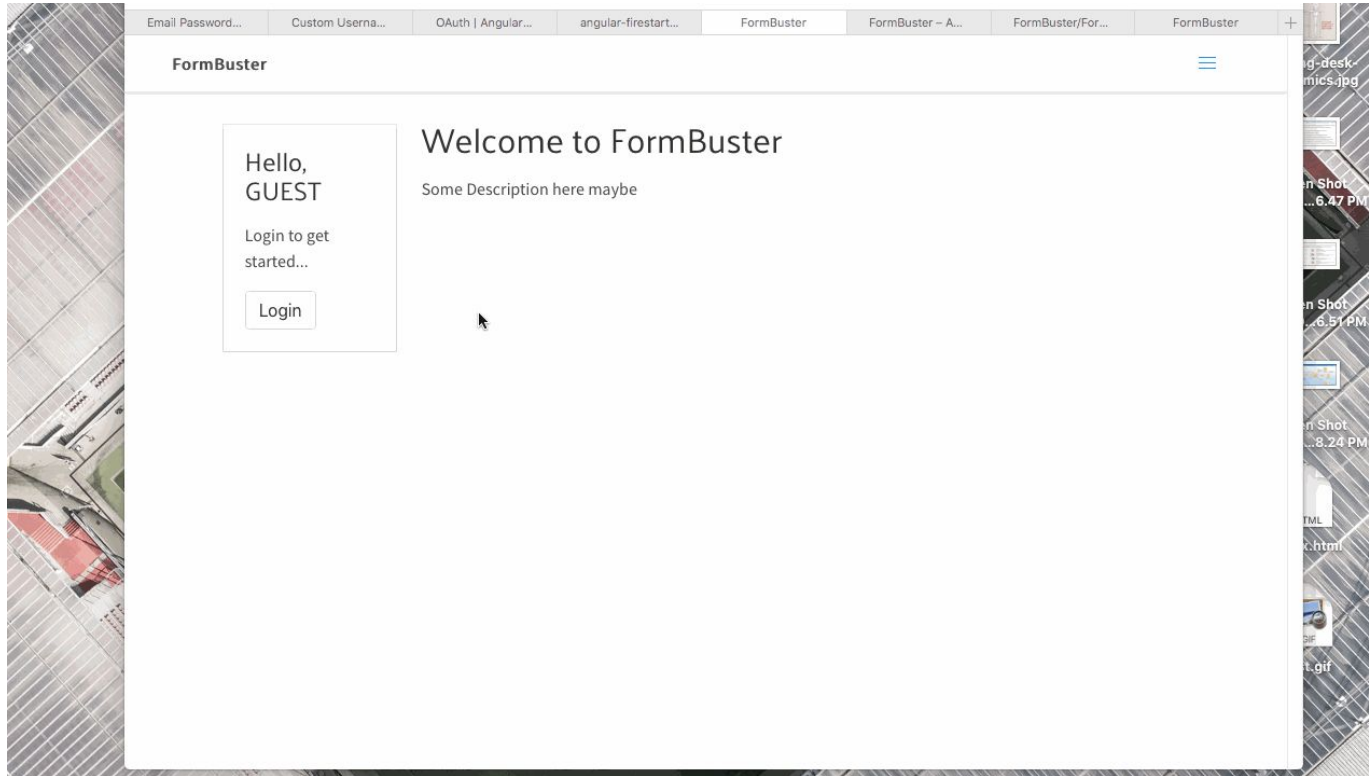
Password:

Would you like to save your password for localhost?

[More info](#)

Uses Firebase, TypeScript and Angular

Demo



Uses Firebase, JavaScript and AnguFire

Firestore

🏠 > users > teststudent2018		
📁 formbuster-73603	📁 users	📁 teststudent2018
+ Add collection	+ Add document	+ Add collection
users >	13SaDWz89lPYpse5rIDTw3L0riE2 902345678 CQyTjf7qdtUWC2K515x4U0f36j1 G0H1tWHtVPu6qCTjwEg5f9HVs1k1 teststudent2018 > zjtcI72JmtgQsQ37yZamWQ0e5213	forms

```
▼ name
  first: "Test"
  last: "Student"
password: "testpassword"
studentID: "900123456"
username: "teststudent2018"
usertype: "student"
```

```
+ Add field
▼ address
  apt: ""
  city: "Melbourne"
  state: "FL"
  street: "150 W University Blvd"
  zipcode: "32901"
▼ advisor
  first: "Test"
  last: "Advisor"
```

Prototype

Welcome to Form Buster

Login

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?

The word "Questions?" is rendered in a large, teal, sans-serif font. A horizontal orange line is positioned below the text, starting from the left edge of the 'Q' and extending to the right, ending just before the 3D orange question mark. The question mark is a thick, glossy, 3D object with a small sphere at its base. The entire graphic is set against a plain white background.