

Project GoNavy!



N
NAVY

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Application's Purpose:

- Currently, the managing staff utilize stand-alone programs such as Excel, Word, Google Sheets and e-mail to maintain the large amount of data throughout every term.
- A lot of errors occur due to inconsistencies when documenting, which leads to misinformation and confusion.
- Some documents may be reproduced many times, which increase the odds for an error to occur.

We Present: GoNavy!

(a.k.a. NROTC Project)

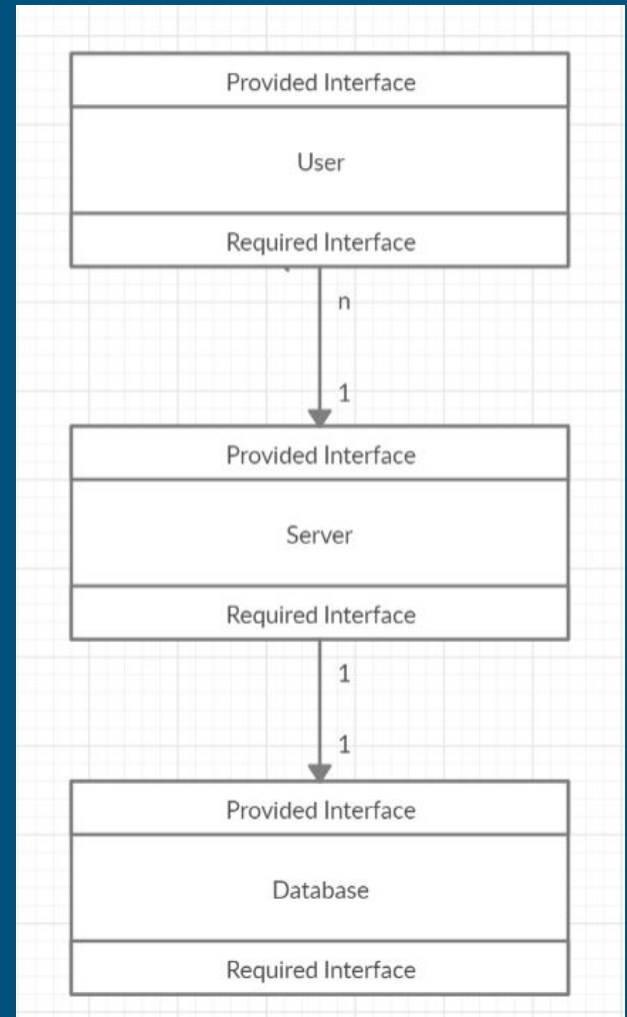


The GoNavy! Application:

- GoNavy is a domain-focused application.
- Its users are members of the San Diego Naval Reserve Officer Training Corps (NROTC).
- It was conceived as a application to replace and centralize current applications used by the NROTC San Diego Staff.

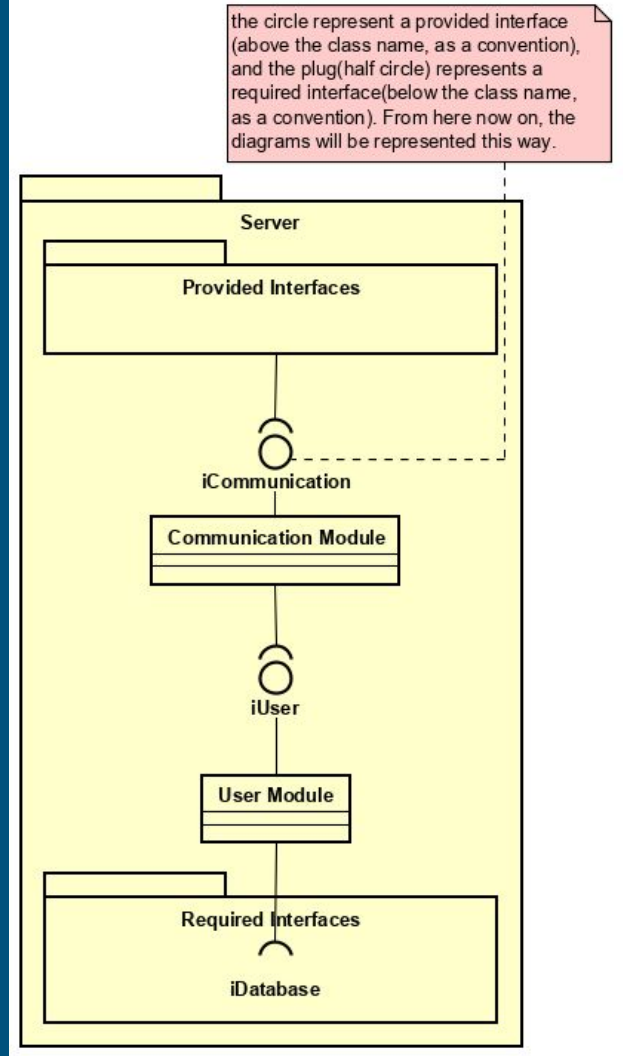
The Design:

- We chose to make a client-server application.
- We will have many users logged into the client-side application, which is a page on the user's browser.
- Some functions will be available to some users depending on their billet.
- The server will handle users' requests to access the database, that will run on the same computer.

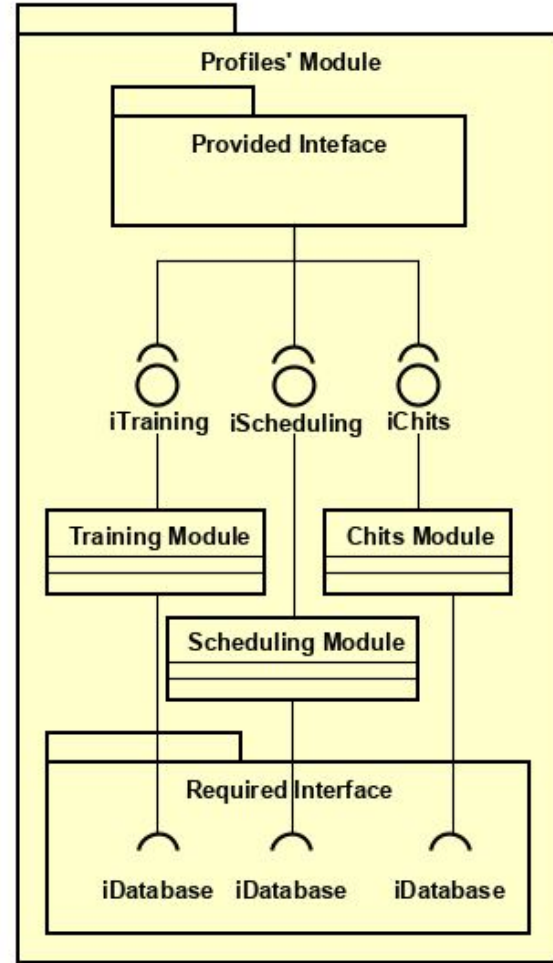
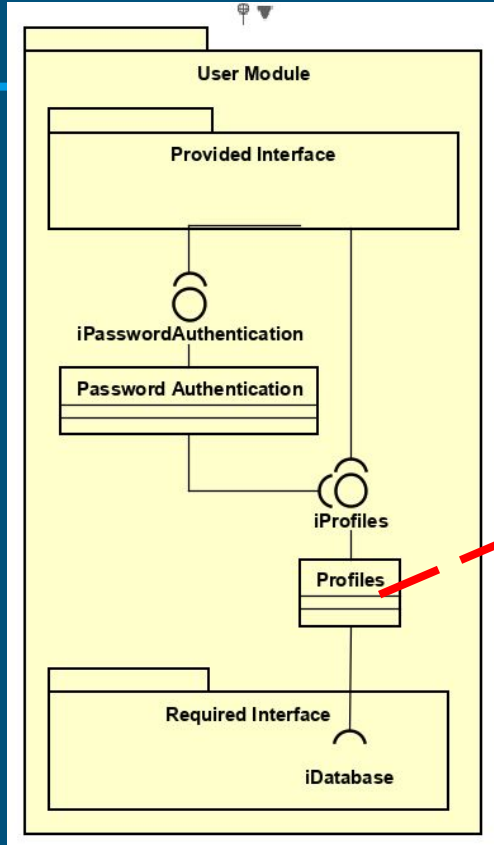


High-level Architecture of the server:

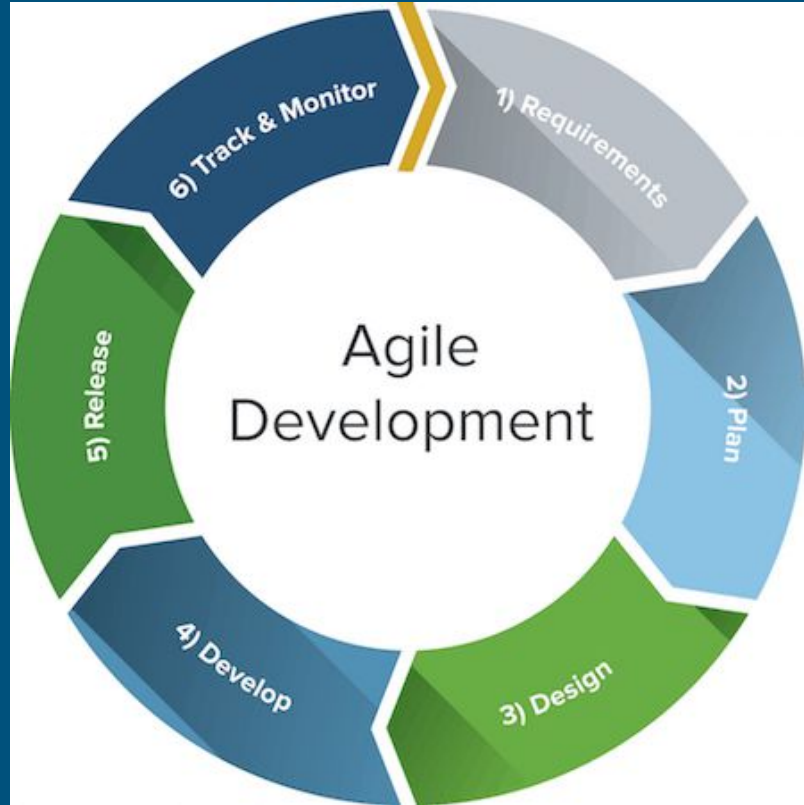
- Communication Sub-Module.
 - Provides interface methods to the User module.
- User Sub-Module.
 - Utilizes database provided methods for the user to operate on the database.



User Sub-Module:

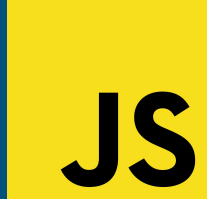


Development Method



Tools used in the project:

Client Side



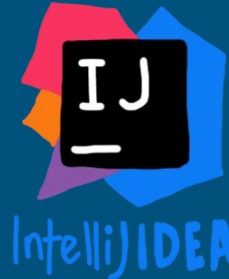
Supported Browsers



Server Side

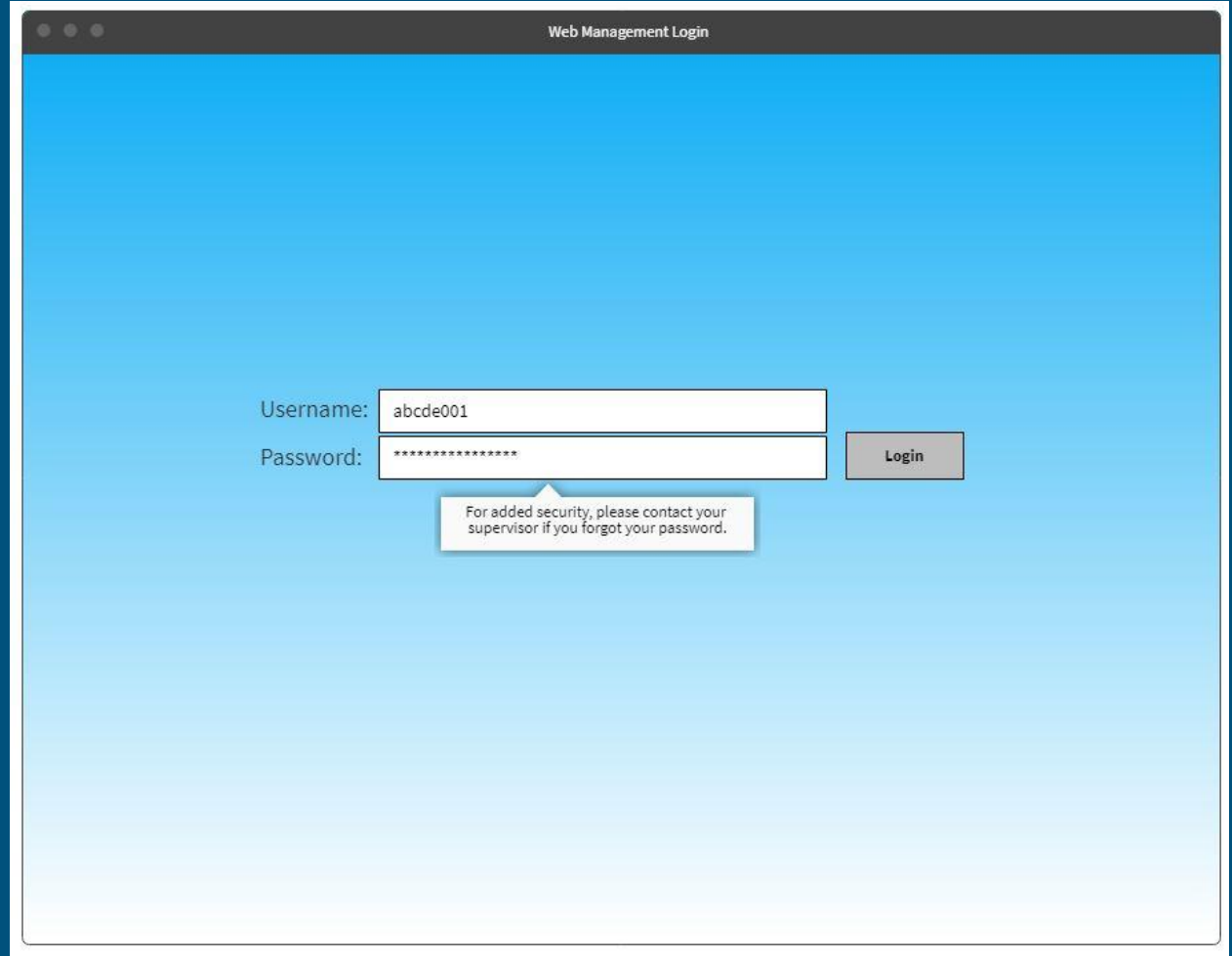


Development Tools



Functional Requirements

SR.01 The system shall allow any user to securely login using their username and password.



The image shows a web browser window titled "Web Management Login". The background is a light blue gradient. In the center, there is a login form with two input fields. The first field is labeled "Username:" and contains the text "abcde001". The second field is labeled "Password:" and contains a series of asterisks "*****". To the right of the password field is a grey button labeled "Login". Below the password field, there is a small white box with a blue border containing the text: "For added security, please contact your supervisor if you forgot your password."

Functional Requirements

SU.01 The system shall have a student profile page where Demographic, Service, Command, Academic, Training, and Watchbill data is listed and can be viewed by the individual student user

SU.02 The system shall list in the Demographic section the student's username, rank, last name, first name, middle initial, assignment identifier, EDIP, date of birth, gender, program, status, service option, and service contract.

SU.03 The system shall list in the Demographic section the student's contact information containing their phone number, physical address, and muster point. The student shall have the option to edit the contact information.

SU.04 The system shall list in the Academic section the student's school, major, expected graduation term, and cumulative GPA.

SU.05 The system shall list in the Academic section all of the student's current courses with the course ID, title, number of units, weekdays, and times.

SU.07 The system shall allow for the student to maintain a current copy of their transcript in the Academic section. Each upload shall overwrite the previous file.

Home Page

NROTC San Diego Web Management

Rank LName

Home

Training

Chits

Leadership

Communication

Watchbill

Calendar

Documents

Personal Information

Rank LName, FName MI.
EDIP: 123456789 DOB: 01 Jan 2000 Gender: M
Comp / Plt / Sqd: A / 1 / 1
Current Command Billet: Squad Leader
Current Collateral Billet: None

User Information

Username: abcde001
[Click here](#) to change password

Contact Information

Phone: (987) 654-3210 [\(edit\)](#)
Email: username@domain.com [\(edit\)](#)
Physical Residence: Off-Campus [\(edit\)](#)
Street/Dorm #: 123 Main St.
Apt/Building:
City: San Diego
State: CA Zip: 92131
Muster Point Preference: North [\(edit\)](#)

Service Information

Program: MECEP Program Status: Active
Rank: SSgt Service Option: Navy
Contract: Air

Academic Information


School: CSUSM Grad Term: 2020 Sp
Major: Computer Science Transcript: [\(view\)](#)[\(new\)](#)
Cumulative GPA: 4.00 Degree Plan: [\(view\)](#)[\(new\)](#)
Current Courses: 10 Units [\(edit courses\)](#)

ID	Title	Units	Days	Times
CS441	Software Engin.	3	MWF	1230-1330
CSxxx	Title	3	TuTh	1230-1330
CSxxx	Title	3	MW	1230-1330
CSxxx	Lab	1	F	1000-1330

Command Information

Assigned OI: Rank LName, FName
Chain of Command:

Lvl	Billet	Name
1	Commanding Officer	Rank LName, FName
2	Executive Officer	Rank LName, FName
3	Command Senior Chief	Rank LName, FName
4	Officer Instructor	Rank LName, FName
5	Assistant OI	Rank LName, FName
6	Battalion CO	Rank LName, FName
7	Battalion XO	Rank LName, FName
8	Battalion CMC	Rank LName, FName
9	Company CO	Rank LName, FName
10	Company XO	Rank LName, FName
11	Company 1stSgt	Rank LName, FName
12	Platoon Commander	Rank LName, FName
13	Platoon Sergeant	Rank LName, FName
14	Squad Leader	Rank LName, FName
15	Member	Rank LName, FName

[\(edit\)](#)

Functional Requirements

SU.11 The system shall list in the Training section all of the physical fitness test data for the student sorted by date. The most current shall be on top. Data shall include the date, event title, and total score.

SU.12 The system shall list in the Training section all of the weigh-in data for the student sorted by date. The most current shall be on top. Data shall include the date, height, weight, body fat percentage, and pass/fail.

SU.13 The system shall list in the Training section all of the service training event data for the student sorted by date. The most current shall be on top. Data shall include the date and event title.

SU.14 The system shall list in the Training section all of the club event data for the student sorted by date. The most current shall be on top. Data shall include the date and event title.

SU.15 The system shall list in the Training section all of the volunteer data for the student sorted by date. The most current shall be on top. Data shall include the date, event title, and the event duration (hours).

Training Page

NROTC San Diego Web Management

Rank LName

Home

Training

Chits

Leadership

Communication

Watchbill

Calendar

Documents

My Training

Command Mgmt

Create Event

Current Term

Date	Event	Score	Notes
01 Jan 20	PFT	300	PU 25 / CR 120 / Run 17:45

Previous Terms

Date	Event	Score	Notes
01 Jan 20	PFT	300	PU 25 / CR 120 / Run 17:45
01 Dec 19	CFT	300	MTC 3:00 / AL 120 / MUF 2:00
01 Nov 19	Volunteer	3 hours	Canyon Cleanup
01 Sept 19	Club Event	3 hours	Aviation
01 Aug 19	Weigh-in	Pass	Ht: 73 / Wt: 185 / BF: -
01 Jan 20	PFT	300	PU 25 / CR 120 / Run 17:45
01 Dec 19	CFT	300	MTC 3:00 / AL 120 / MUF 2:00
01 Nov 19	Volunteer	3 hours	Canyon Cleanup
01 Sept 19	Club Event	3 hours	Aviation
01 Aug 19	Weigh-in	Pass	Ht: 73 / Wt: 185 / BF: -

Functional Requirements

TS.02.1 The system shall allow any authorized users to initiate a new training event.

TS.03.1 For every new training event, the system shall allow the user to select an event type, which will consist of 'Club Event', 'Community Service Event', 'Physical Fitness Event', 'Weigh-In Event', or 'Other Training Event'.

TS.PF.03.1 The system shall allow each sub-event to record a score that is an integer.

Training Page

NROTC San Diego Web Management

Rank LName

Home

Training

Chits

Leadership

Communication

Watchbill

Calendar

Documents

My Training

Command Mgmt

Create Event

Date:

01 Aug 19

Event Type:

CFT

Event Name:

Event Owner:

Rank LName

Notes:

Manchester Field @ 0545

Duration:

Sub Events

Sub Event 1 Type:

Timed

Title:

MTC

Sub Event 2 Type:

Count

Title:

AL

Sub Event 3 Type:

Timed

Title:

MUF

(Add Sub Event)

Scoring Type:

Integer

Participant Limit:

None

Billets

Billet Title:

Monitor

User Sign-up

Assigned

Rank LName

(Add Billet)

Create Event

Functional Requirements

TS.01 1 The system shall have a Training section to be accessible by all users.

TS.07 1 The system shall allow the event owner to edit the event at any time.

Training Page

NROTC San Diego Web Management

Rank LName

Home

Training

Chits

Leadership

Communication

Watchbill

Calendar

Documents

My Training

Command Mgmt

Create Event

Current Term

Permission	Date	Event Name	Event Owner	Notes
[view] / [edit]	01 Jan 20	PFT	Rank LName	MCRD at 0545
[view]	15 Jan 20	Volunteer	Rank LName	Canyon Cleanup at 1200
[view] / [edit]	01 Feb 20	Marine Weigh-in	Rank LName	Conference Room at 0545
[view]	01 Feb 20	Navy Weigh-in	Rank LName	Ward Room at 0545

Previous Term

From: 01 Aug 19

TO: 31 Dec 19

Permission	Date	Event Name	Event Owner	Notes
[view]	01 Aug 19	PFT	Rank LName	MCRD at 0545
[view]	15 Oct 19	Volunteer	Rank LName	Canyon Cleanup at 1200
[view]	01 Dec 19	Marine Weigh-in	Rank LName	Conference Room at 0545
[view]	01 Dec 19	Navy Weigh-in	Rank LName	Ward Room at 0545

Functional Requirements

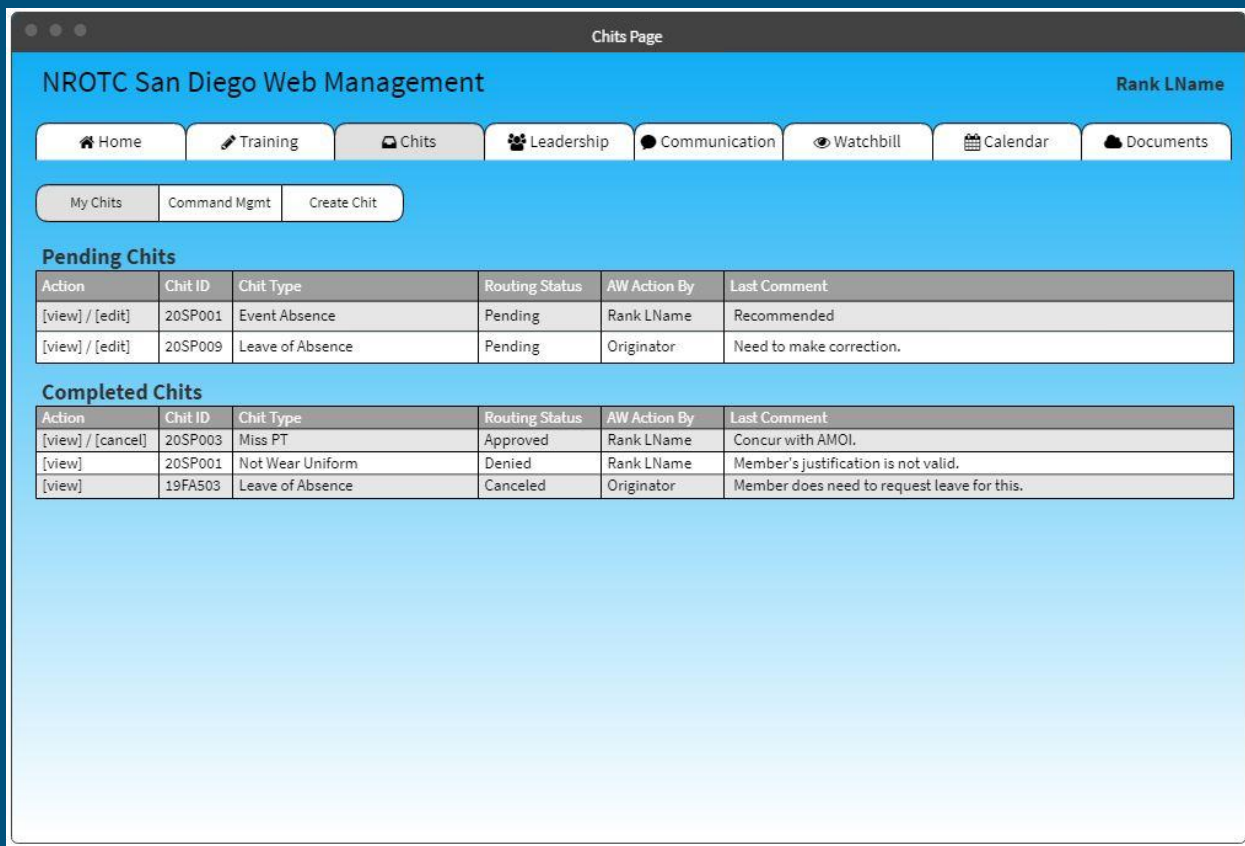
CHIT.01 The system shall allow a user to submit a request for a chit approval.

CHIT.02 The system shall allow a user to cancel a previously requested chit.

CHIT.03 The system shall allow a user to edit a previously requested chit.

CHIT.17 The system shall include three views for the chit system: 'New Chit Request', 'My Submitted Chits', and 'Command View'.

CHIT.19 In the 'My Submitted Chits' view, the system shall allow any user to view all submitted chits and the current status for only the user's submitted chits. The system shall also allow the user to edit or cancel any active chits.



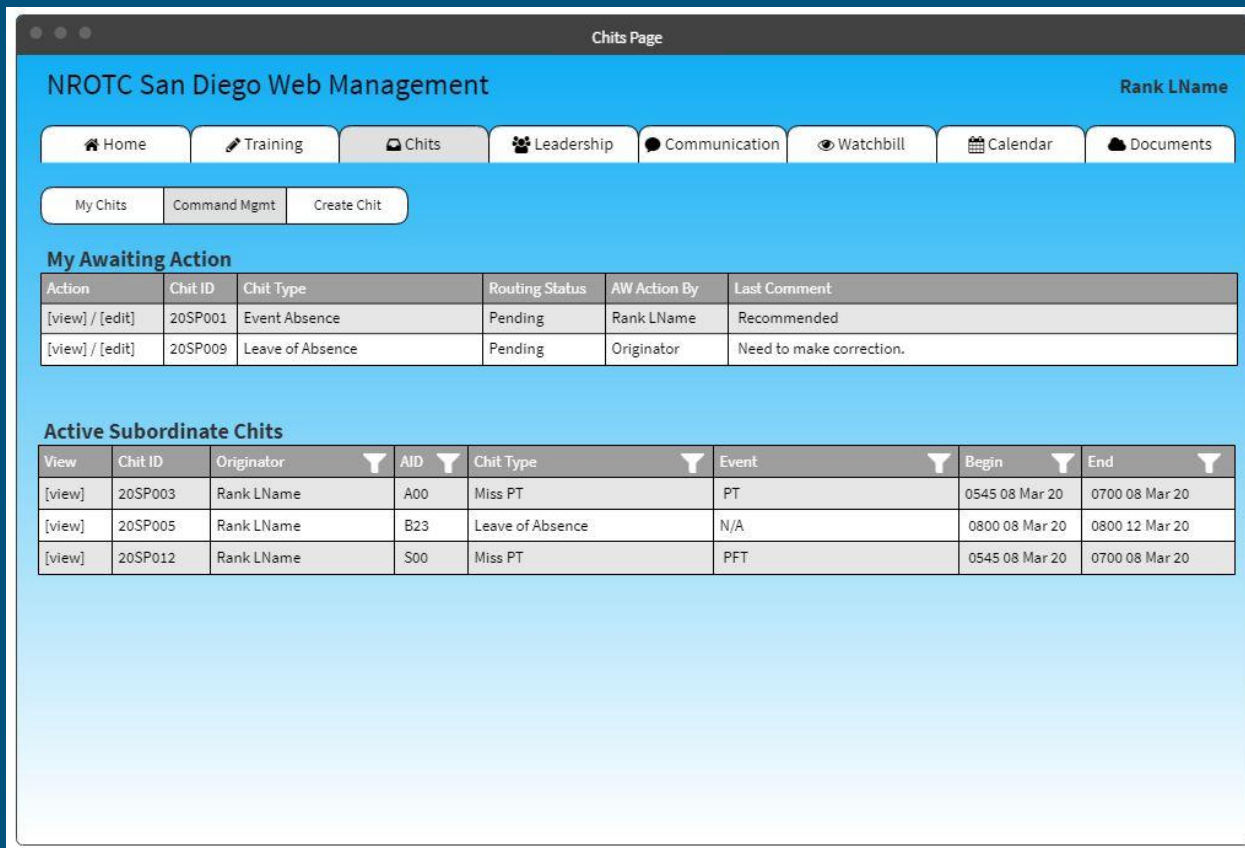
Functional Requirements

CHIT.12 The system shall sequentially allow each user within the originator's CoC to make a comment and make a decision one at a time beginning from the lowest member in the CoC to the highest member.

CHIT.21 In the 'Command View', the system shall have a subview for 'My Action' and 'My Command'.

CHIT.22 In the 'My Action' view, the system shall display all chits awaiting action for that user, allow the user to view the chit, and allow the user to comment and take action.

CHIT.23 In the 'My Command', the system shall list all active chits for all members under that user's CoC.



Chits Page

NROTC San Diego Web Management

Rank LName

Home Training Chits Leadership Communication Watchbill Calendar Documents

My Chits Command Mgmt Create Chit

My Awaiting Action

Action	Chit ID	Chit Type	Routing Status	AW Action By	Last Comment
[view] / [edit]	20SP001	Event Absence	Pending	Rank LName	Recommended
[view] / [edit]	20SP009	Leave of Absence	Pending	Originator	Need to make correction.

Active Subordinate Chits

View	Chit ID	Originator	AID	Chit Type	Event	Begin	End
[view]	20SP003	Rank LName	A00	Miss PT	PT	0545 08 Mar 20	0700 08 Mar 20
[view]	20SP005	Rank LName	B23	Leave of Absence	N/A	0800 08 Mar 20	0800 12 Mar 20
[view]	20SP012	Rank LName	S00	Miss PT	PFT	0545 08 Mar 20	0700 08 Mar 20

Functional Requirements

CHIT.06 The system shall implement a new comment log for each submitted chit with a timestamp and the user's name for each comment.

CHIT.07 The system shall log a comment at the moment the chit was submitted, a decision is made, the chit was resubmitted, the chit is acknowledged, and/or when the chit was canceled.

CHIT.10 The system shall restart the approval process to the originator once the 'Rework' method has been initiated.

CHIT.11 The system shall allow users within the originator's CoC to be able to comment on the chit and make a single decision choice of 'Recommend', 'Not Recommend', 'Approve', 'Disapprove', or 'Rework'.

CHIT.12 The system shall sequentially allow each user within the originator's CoC to make a comment and make a decision one at a time beginning from the lowest member in the CoC to the highest member.

The screenshot displays the 'Chits Page' in the 'NROTC San Diego Web Management' system. A modal window is open for 'Chit ID: 20SP019'. The modal contains a form with the following fields:

- Member: MIDN 1/C LName
- AID: C / 2 / 1
- Begin Date/Ti...: 1600 03 Mar 20
- End Date/Time: 1600 04 Mar 20
- Chit Type: Event Absence
- Event: PIR
- Justification: I respectfully request to miss PIR due to a class conflict. I have attach...
- Travel Details: N/A
- Documents: [ClassSchedule.pdf]

Below the form is a table of comments:

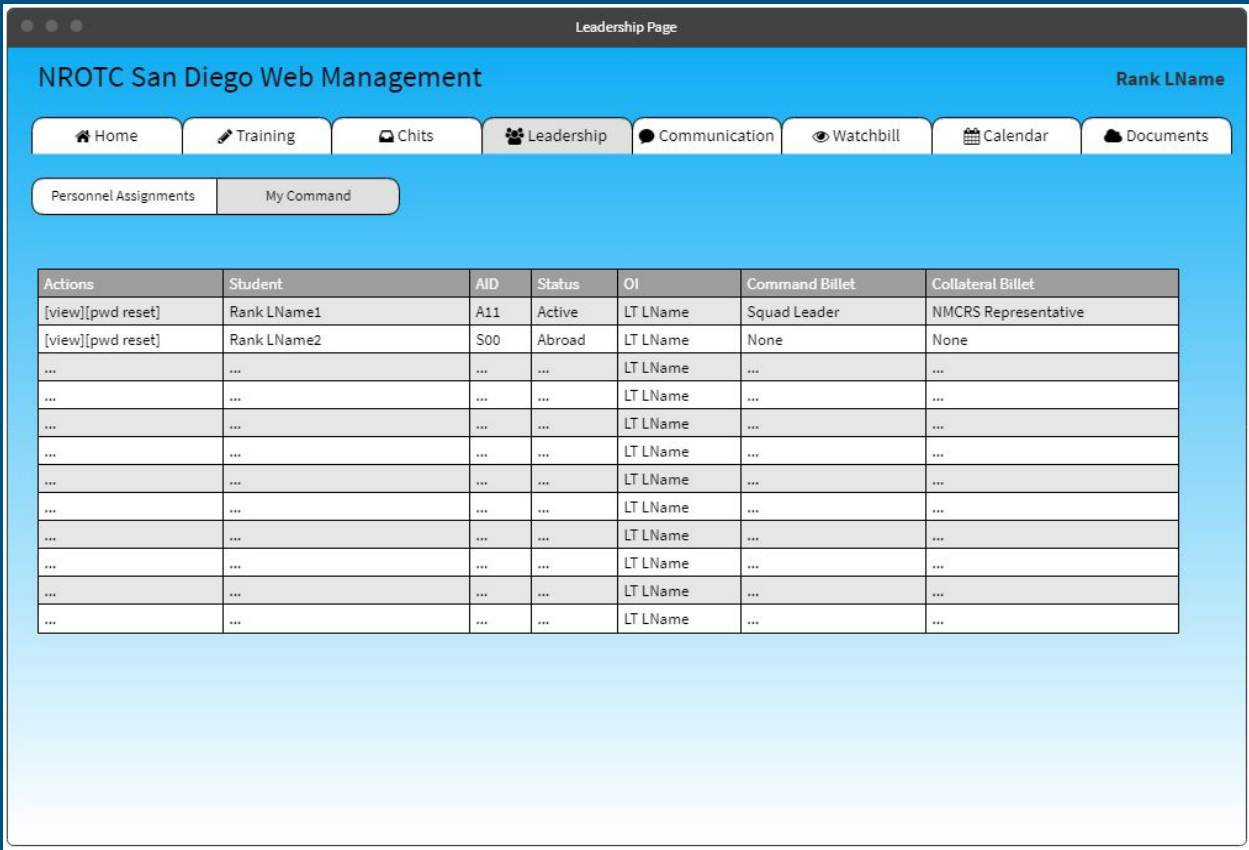
Timestamp	Name	Action	Comments
0800 15 Feb 20	MIDN 1/C LNa...	Created	Submitted for routing.
0810 15 Feb 20	MIDN 1/C LNa...	Recomm...	Member has a justified request. Forwarded to GySgt LName3.
0820 15 Feb 20	GySgt LName3	Recomm...	Concur with Company XO. Forwarded to OI.

At the bottom of the modal, there is an 'Action:' dropdown menu set to 'Select' and a 'Comment:' text area. The modal has 'Close' and 'Save Changes' buttons at the bottom right.

STF.05 2 The system shall include a comment log link for each student line. This will allow the staff member to annotate comments on the student that is only visible to other staff members. Comments shall be time stamped and also log the last name of the user who logs a comment.

[illegible]

Extra Feature that allows view of all students under the current user's command.



SCH.WB.01 The system shall implement a 'Watchbill' scheduling system.

Watchbill Page

NROTC San Diego Web Management

Rank LName

Home

Training

Chits

Leadership

Communication

Watchbill

Calendar

Documents

View

Edit

Select Week

Not Available for users without permissions.

Duty	Shift	3-9 Monday	3-10 Tuesday	3-11 Wednesday	3-12 Thursday	3-13 Friday	3-14 Saturday	3-15 Sunday
PT Driver	Navy		Rank LName		Rank LName	Rank LName		
PT Driver	Marines		Rank LName		Rank LName	Rank LName		
Duty Driver	AM	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName
Duty Driver	PM	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName
Male Observer	AM	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName		
Male Observer	PM	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName		
Female Observer	AM	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName		
Female Observer	PM	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName		
Colors	AM 1	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName		
Colors	AM 2	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName		
Colors	AM 3	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName		
Colors	PM 1	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName		
Colors	PM 2	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName		
Colors	PM 3	Rank LName	Rank LName	Rank LName	Rank LName	Rank LName		

Functional Requirements

Calendar Page

NROTC San Diego Web Management

Rank LName

Home Training Chits Leadership Communication Watchbill Calendar Documents

< January 2017 >

Mo	Tu	We	Th	Fr	Sa	Su
1 Staff Meeting 0530	2 PT 0545 Manchester	3	4 PT 0545 Manchester	5	6 BN Drill 0730 MCRD	7
8 Staff Meeting 0530	9 PT 0545 Manchester	10	11 PT 0545 Manchester	12	13	14
15 Staff Meeting 0530	16 PT 0545 Manchester	17	18 PT 0545 Manchester	19	20	21
22 Staff Meeting 0530	23 PT 0545 Manchester	24	25 PT 0545 Manchester	26	27	28
29 Staff Meeting 0530	30 PT 0545 Manchester	31	PT 0545 Manchester			

Functional Requirements

DS.01 The system shall have a document storage section to be accessible by all users.

DS.02 The system shall have a private document storage section for certain users (Staff members).

DS.03 The system shall have a private document storage section to be accessible for chits by only authorized users that have chit review authority.

The screenshot displays the 'Documents Page' of the NROTC San Diego Web Management system. The page features a navigation bar with links for Home, Training, Chits, Leadership, Communication, Watchbill, Calendar, and Documents. Below the navigation bar, there are 'View' and 'Edit' buttons. The main content area is divided into two sections: a left sidebar with a tree view of document categories and a right section for document management.

Left Sidebar (Document Categories):

- Public Documents
 - Unit References (with edit icon)
 - SORM (with edit icon)
- Private Documents (with edit icon)
 - Students (with edit icon)
 - Student 1 (with edit icon)
 - Student 2 (with edit icon)
- Uploaded
 - Chit Documentation
 - Class Schedule
 - Counseling Documents
 - Mentorship Documents
 - Photo

Right Section (Document Management):

Insert: ☐ Directory ☒ File

Title:

File: [\(select\)](#)

Save (button)

A yellow callout box with a smiley face icon and arrows pointing left and right contains the text: **INSERT FILEMO/FOSL/AutoFiler HERE?**

Questions?



Support the troops, vote for U.S.!