Group: Nexus
Project: Employee Nexus

Domain Model

Central Database

Master Account List

Payroll Information

Schedule

Paystubs

Employee

User Account

User Details

Call-Off History

Manager

Available Days

Benefits

Call-Offs

Healthcare

401K
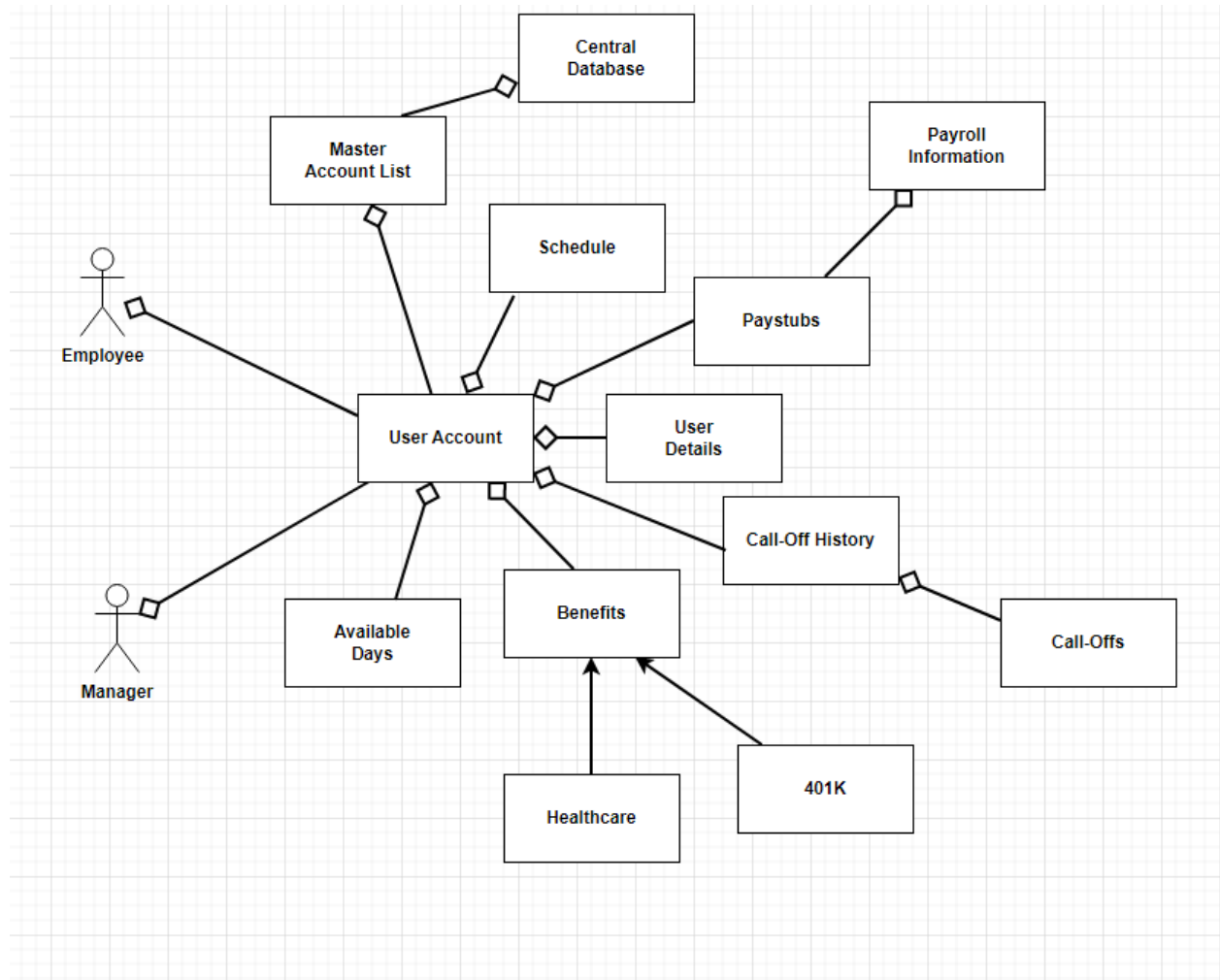
High-Level Requirements

1) Employee Nexus will have both a web version and an android version.
2) The app must allow employees to view their personal information.
   a. Including available PTO, previous call-offs, paystubs, etc.
3) Employees must be able to request time off or call out of work.
4) There must be a database in place to store all employee call-offs.
5) The app must have a login page for users to log on to their accounts.
6) The app must contain different permission levels for administrators.
   a. Managers must be able to alter and update employee information.
   b. The administration must be able to view all employees' payroll information.
7) Employee Nexus will have a news and announcements page that displays relevant company updates.
8) Employee accounts may only be created or deleted by the employer.
9) Employees must be able to view their work schedule. The schedule must display 2 weeks in advance.
10) Eligible employees must be able to view their company benefits information.
   a. This includes 401k, healthcare information, and other company benefits.

Use Case Diagram
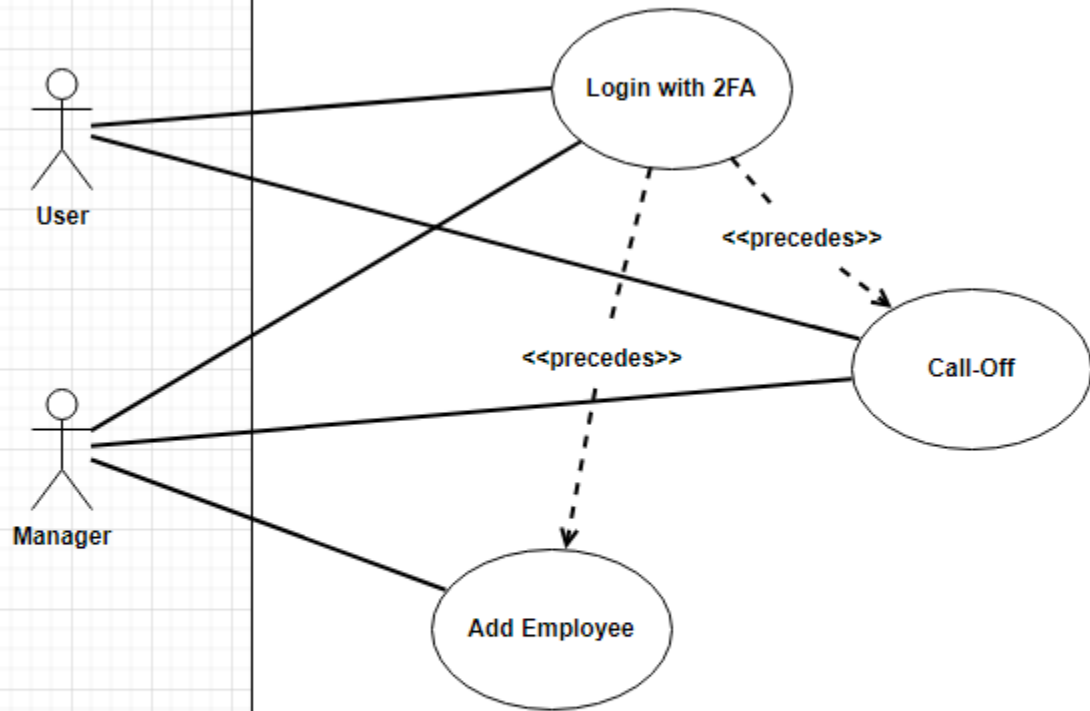
Login with 2FA (by Ethan Stoner)

___**BASIC COURSE:**___ On the Homepage, the user clicks the Log In button, and the system shows the Login screen. The user enters their username and password, and clicks the Login button. The system ensures that the username exists, and that the password is correct for the given username. The system then sends a message to the Authentication server, then shows a Mobile Confirmation page. The user opens the mobile application and confirms their login, and the system sends a confirmation message to the Authentication server. The system displays a Confirmation page, and then the Homepage.
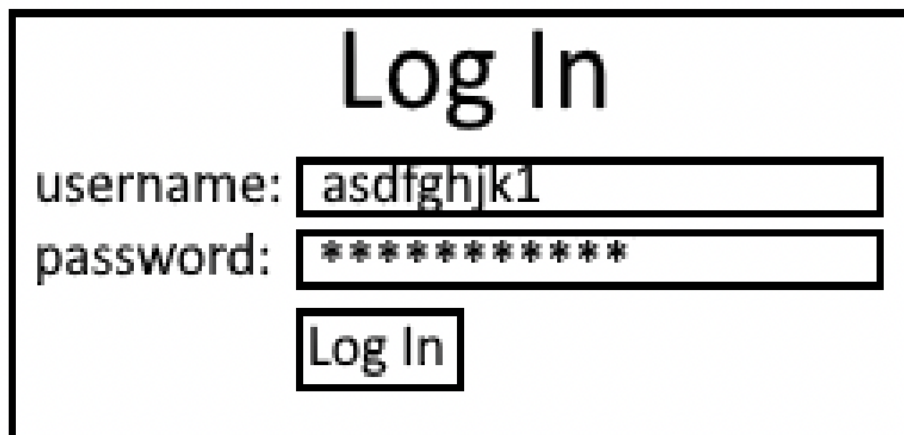
___**ALTERNATE COURSES:**___

___**User does not have the mobile application:**___ The system sends an e-mail message to the user's e-mail address containing a confirmation code, then shows the Confirmation Code Entry screen. The user enters the confirmation code, and the system sends a confirmation message to the Authentication server.

___**Username does not exist:**___ The system displays an Authentication Error page and returns to the Login screen.

___**Password is incorrect:**___ The system displays an Authentication Error page and returns to the Login screen.

___**User does not confirm login:**___ The system sends a rejection message to the Authentication server, displays an Authentication Error page, and then returns to the Login screen.

___**User enters incorrect confirmation code:**___ The system sends a rejection message to the Authentication server, displays an Authentication Error page, and then returns to the Login screen.
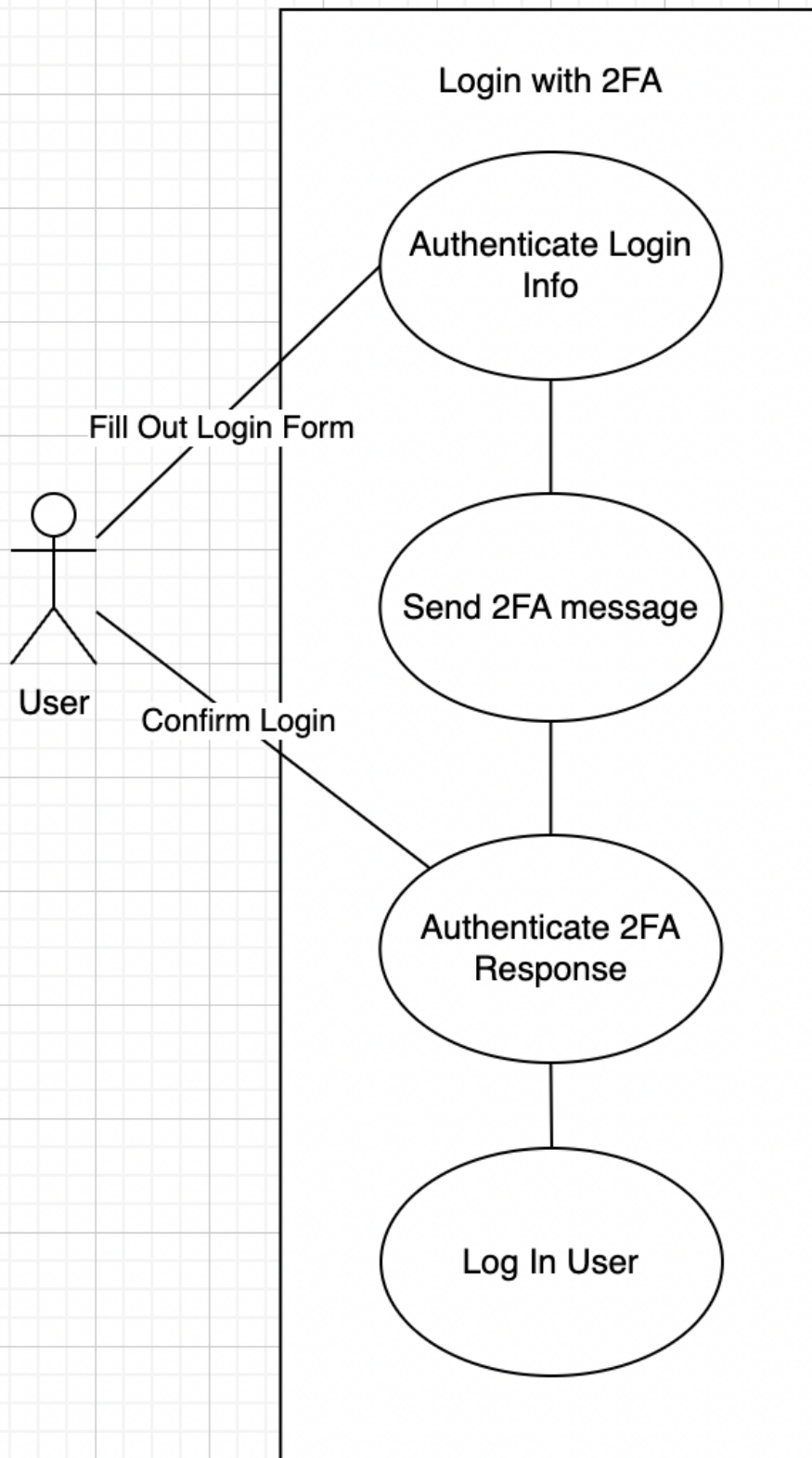
Call-Off (by: John Fletcher)

BASIC COURSE:
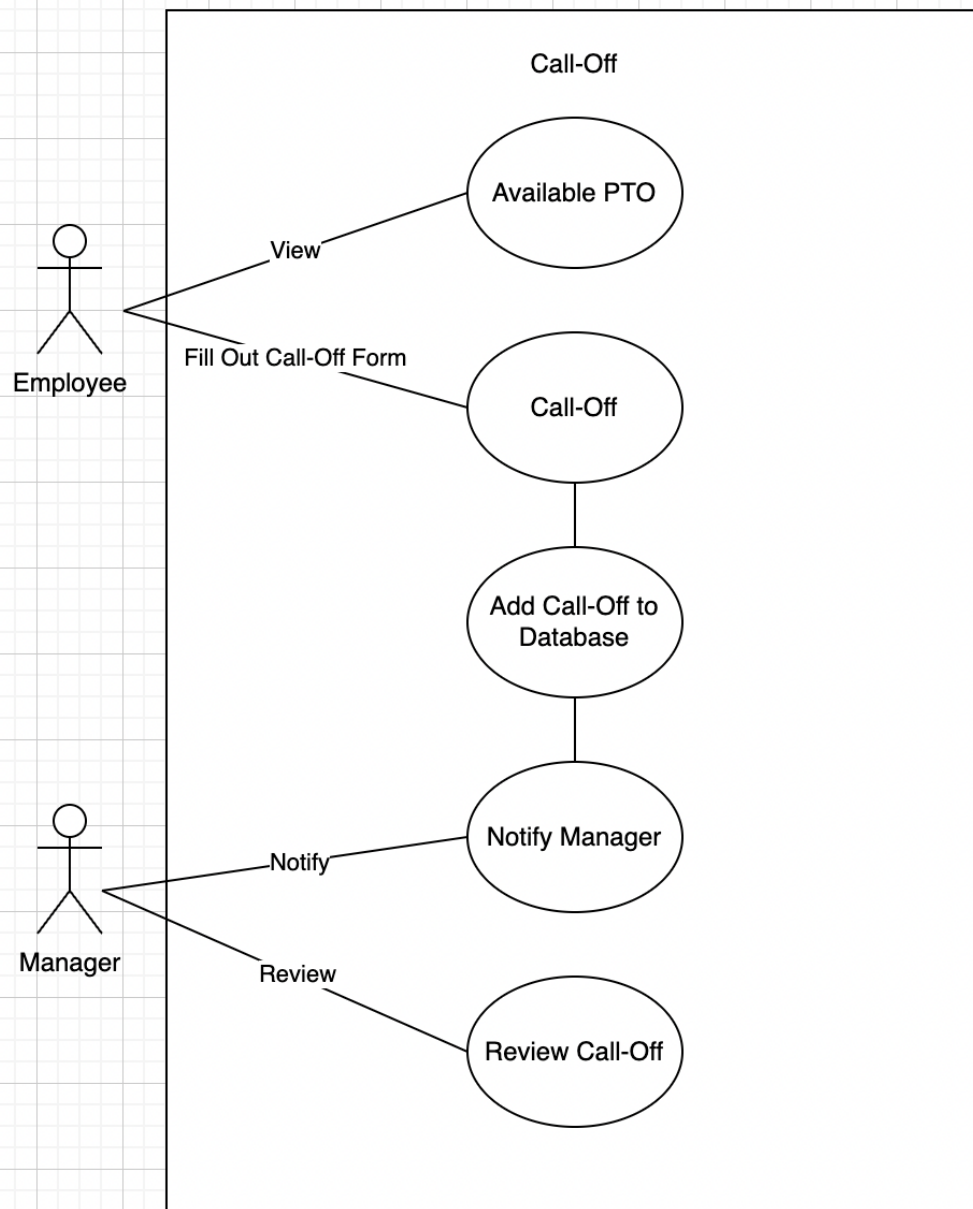
Employee Nexus enables <u>Employees</u> to conveniently <u>Call-Off</u> work within a matter of seconds. To <u>Call-Off</u>, an <u>Employee</u> must fill out the <u>Call-Off Form</u> in the app. Once submitted the <u>Call-Off</u> will be added to the <u>Central Database</u> and the <u>Employees</u> <u>Manager</u> will be <u>Notified</u>.

ALTERNATE COURSES:

User has no available PTO: The <u>Employee</u> will receive a <u>Notification</u> that they have no more available <u>PTO</u> and will be asked if they'd like to continue to <u>Call-Off</u> without <u>Pay</u>.

User is not logged in: The <u>Employee</u> will be <u>Redirected</u> to the <u>Login Page</u> where they can <u>Login</u> to proceed.

Call-Off Form

Name:_____   ID:_____

Reason for Call-Off:_____

Available PTO: <u>40hrs</u>

Submit

Call-Off

Available PTO

Call-Off

Add Call-Off to Database

Notify Manager

Review Call-Off

Employee

Manager

View

Fill Out Call-Off Form

Notify

Review

Add Employee Account (by: Zhaokai Xie)

BASIC COURSE:

The user clicks add a new employee account Button, the system displays Add a New Employee Account Page. The user enters Account Information including the Employee's real Name, Employee ID, Email, Date of Birth, etc. The system ensures that the Employee's ID is unique by accessing Master Account List. The system then adds Employee Account to Master Account List. The system display "Succeed" and send an email to the employee's email address about the Account Information and includes a temporary password.

ALTERNATIVE COURSE:

Employee's ID already exists: The system displays the "ID already exists" message on Error Page. And displays Add a New Employee Account Page again.

Email address is invalid: The system displays the "Please enter a valid email address" message on Error Page. And displays Add a New Employee Account Page again.
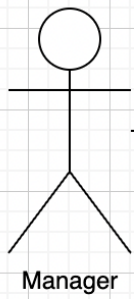
Add a new employee

real name: _____

ID: _____

Email: _____

Date of birth: ___/___/_____

| Add |

Manager

Cllick Add a new Employee button

Add Employee Account

Enter Account Information

Add Employee Account to Master Account List

Send Account Information to Employee's email