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Project Title: Athlete Tracker

Project Summary: A program that allows brands to internally track products sent to sponsored

athletes.

Project Requirements

Business Requirements

ID	Requirement	User	Priority
BR-01	Need a system to track and report products sent to sponsored athletes	All	Critical
BR-02	Admins should be able to add new products	Admin	High
BR-03	Admins should be able to edit existing products	Admin	Medium
BR-04	Admins should be able to delete existing products	Admin	Medium
BR-05	Admins should be able to add new athletes	Admin	High
BR-06	Admins should be able to edit existing athletes	Admin	High
BR-07	Admins should be able to delete existing athletes	Admin	Medium
BR-08	Admins should be to view a list of shipments, their value, and when they were sent to a specified athlete	Admin	Medium
BR-09	Athletes should be to view a list of shipments, their value, and when they were sent to them	Athlete	Low
BR-10	Warehouse workers should be able to view a list of shipments,	Warehouse worker	Medium

	their value, and when they were sent to a specified athlete		
BR-11	Admins should be able to log a new shipment entry which specifies what product(s) were sent when and to which athlete	Admin	High
BR-12	Athletes should not be able to view other athletes' information	Athlete	High
BR-13	All data should be loaded/displayed in real-time to prevent concurrent editing issues	All	Very low / nice-to-have

User Requirements

ID	Requirement	Topic Area	User	Priority
UR-01	Admin should be able to view the total value in product sent to a specified athlete	Dashboard	Admin	Medium
UR-02	Athletes should be able to view the total value in product they have received	Dashboard	Athlete	Medium
UR-03	Users should be able to log in	Log-in	Athlete	Critical
UR-06	All users should have a portal to access and modify information	Dashboard	All	High
UR-07	Admins should be able to search for an athlete by name	Dashboard	Admin	Nice-to-have
UR-08	Warehouse workers should be able to search for an athlete by name	Dashboard	Warehouse worker	Nice-to-have
UR-09	Warehouse workers should be able to view a list of shipments needing to be shipped	Dashboard	Warehouse worker	High
UR-10	Warehouse workers should be able to update a shipment's status (pending, shipped, etc)	Dashboard	Warehouse worker	High
UR-11	Users can retrieve lost passwords after verifying identity	Authenticati on	All	Nice-to-have

Functional Requirements

ID	Requirement	Topic Area	User	Priority
FR-01	System can calculate the total value in product sent to an Athlete over a specified time period	Metrics	System	Nice-to-have
FR-02	Users can log-in to a portal session using a set username and password	Authentication	All	High
FR-03	New products can be added to the database	Database	Admin	High
FR-04	Existing products can be edited	Database	Admin	Medium
FR-05	New athletes can be added to the database	Database	Admin	High
FR-06	New athletes can be given access to the system	Authentication	Athlete	High
FR-07	Athlete information can be edited	Database	Athlete / Admin	High
FR-08	System can email users to reset password	Authentication	All	Nice-to-have (stretch)

Non-Functional Requirements

ID	Requirement	Topic Area	User	Priority
NF-01	Users should not be able to access another user's data, including authentication data	Security / Privacy	All	High
NF-02	The portal should be accessible from any operating system	Portability	All	High
NF-03	The portal should be accessible from any size	Portability	All	Medium

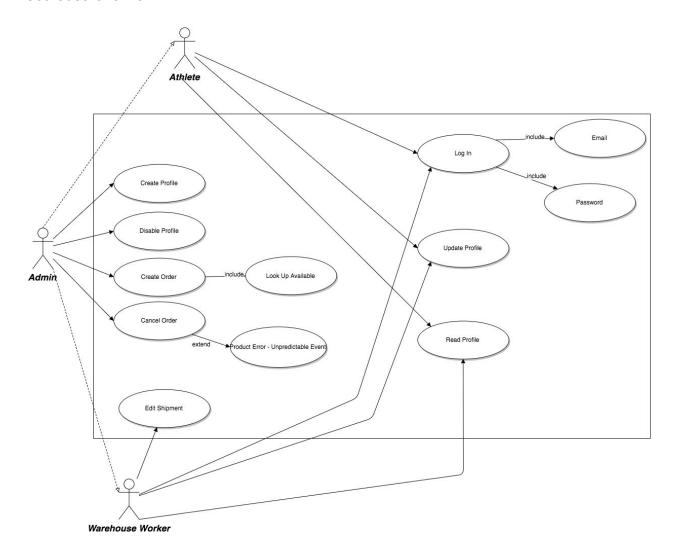
	device (responsive design)			
NF-04	Portal should be easy to use	Accessibility	All	High
NF-05	User passwords should be securely stored and accessed (salted & hashed)	Security	All	Critical

Use Cases

Actors

- Admin
- Athlete
- Warehouse Worker

Use Case Overview



Use Case Documents

Use Case ID	UC-01
Use Case Name	Log In
Description	Admins, athletes, and warehouse workers can log in to the system to access any information available to them
Actors	Admin, athlete, warehouse worker
Pre-Conditions	The actor is not already logged in and the profile already exists and is active.
Post-Conditions	If successful, the actor is now logged in.

Frequency of Use	Multiple tin	Multiple times daily - every time the tracker is used		
Flow of Events		Actor Action	System Response	
	1.	System prompts user to enter username & password		
	2.	Enter username & password		
	3.	Click submit	Validate username & password with information in database, begins user session	
Variations	2. If username and/or password are invalid, system displays an error message. Actor can choose to return to beginning of flow or cancel login.			
Exceptions	None			
Developer Notes	Be sure pa	Be sure passwords are salted and cryptographically hashed for security.		

Use Case ID	UC-02	UC-02		
Use Case Name	Create sh	Create shipment ticket		
Description	Admin ca	n create a shipment ticket and send	it to warehouse worker	
Actors	Admins			
Pre-Conditions	Athlete to	receive products exists		
Post-Conditions	Order ticket for specific product created and sent to warehouse worker			
Frequency of Use	Whenever an athlete needs to be sent new products - multiple times per week when considering a large number of athletes			
Flow of Events		Actor Action	System Response	
	1.	Log into system		
	2.	Navigate to "create orders/tickets" page	Display all products	

	3.	Select all products that will be attached to the newly created ticket, select "Create Shipment"	Popup modal shows summary of order ticket
	4.	Admin confirms they wish to create ticket	Adds order to shipment table. Alerts admin ticket has been sent to warehouse
Variations	None		
Exceptions	None		
Developer Notes	None		

Use Case ID	UC-03			
Use Case Name	Cancel ship	Cancel shipment		
Description	Admin can	cancel a shipment ticke	et after is has been created	
Actors	Admins			
Pre-Conditions	A shipment	ticket has been created	d and not yet fulfilled	
Post-Conditions	Shipment m	narked as cancelled in o	database	
Frequency of Use	Whenever a	Whenever a shipment is cancelled by admin		
Flow of Events		Actor Action	System Response	
	1.	Log into system		
	2.	Navigate to "shipments" page	Display page that lists all shipments, specifying which have not yet been fulfilled	
	3.	Navigate to needed shipment, click edit button	Popup window with edit options opens	
	4.	Change status to cancelled	Updates shipment status field to cancelled within database. Alerts admin shipment has been cancelled.	
Variations	None			

Exceptions	None
Developer Notes	None

Use Case ID	UC-04			
Use Case Name	Edit own profile			
Description	Actor can edit fields associated with their profile			
Actors	Admin,	Admin, Athlete, Warehouse Worker		
Pre-Conditions	Actor must have account, and must be logged in to that account			
Post-Conditions	Actors information they wish to edit will be updated			
Frequency of Use	Whenever the actor needs to make a change to their profile			
Flow of Events		Actor Action	System Response	
	1.	Login to system	Logs in, shows the actor's profile	
	2.	Click edit button	Opens pop-up edit window	
	3.	Edit needed fields		
	4.	Click "save changes" button	Updates user profile info in database, closes pop-up, displays updated information on profile page	
Variations	None			
Exceptions	None			
Developer Notes	None			

Use Case ID	UC-05		
Use Case Name	View own profile		
Description	Actor can view information stored on their profile		
Actors	Admins, Athletes, Warehouse Workers		

Pre-Conditions	Actor must have account, and must be logged in to that account		
Post-Conditions	Actor has viewed account information		
Frequency of Use	Whenever an actor wishes to review or verify information on their profile - daily.		
Flow of Events		Actor Action	System Response
	1.	Log in to system	Logs in
	2.	Click on "View Profile"	Displays a list of the user's information, including their name, address, and shipments that they have sent or received
Variations	None		
Exceptions	None		
Developer Notes	None		

Use Case ID	UC-06		
Use Case Name	Edit Shipment		
Description	Warehouse worker or admin edits a shipment, either to alter the information or to mark it as shipped.		
Actors	Warehouse worker, Admin		
Pre-Conditions	Shipment ticket has been created and shipment has not yet been fulfilled.		
Post-Conditions	Shipment ticket altered.		
Frequency of Use	Daily - at least every time a shipment is sent		
Flow of Events		Actor Action	System Response
	1.	Navigate to "Shipments" page	Display shipments
	2.	Click edit button for corresponding shipment	Opens pop-up window with editable fields
	Update necessary fields None		
	4. Click "save changes" Update field(s) in		

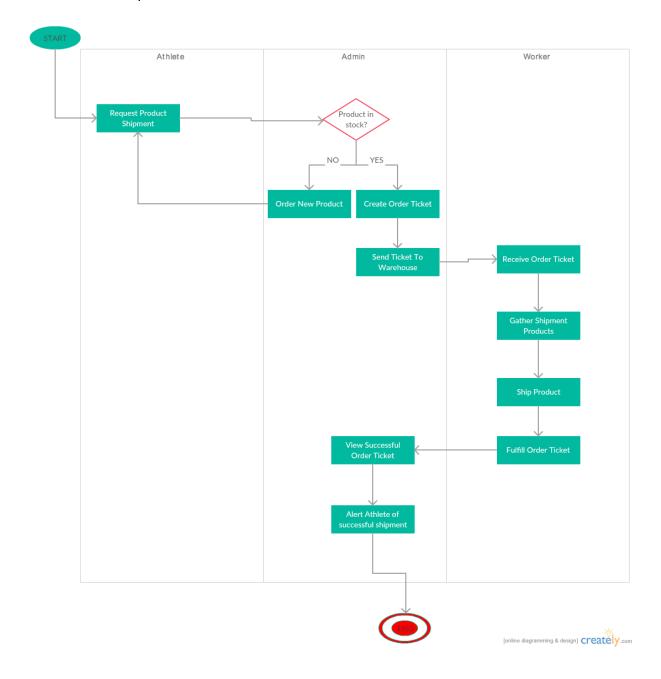
	database		
Variations	3. If marking as shipped, worker first prepares and ships physical order		
Exceptions	None		
Developer Notes	None		

Use Case ID	UC-07			
Use Case Name	Creat	Create Profile		
Description	Admin can create a user (profile) for user types Admin, Athlete, and Warehouse Worker			
Actors	Admii	Admins		
Pre-Conditions	The p	The profile being created doesn't already exist.		
Post-Conditions	User and profile are created, information stored in DB, and admin is alerted of success (or failure, with an error message)			
Frequency of Use	Whenever new users need to be added to the system (new athletes brought on, new warehouse workers hired, new admins appointed/hired)			
Flow of Events		Actor Action	System Response	
	1.	Log into system		
	2.	Navigate to "athletes", "warehouse workers", or "admins" user page	Display page that lists all users of the corresponding type	
	3.	Click "Create User" button, where User is the type of user to be created (i.e., athletes page has a "Create Athlete" button, etc)		
Variations	None			
Exceptions	None			
Developer Notes	None			

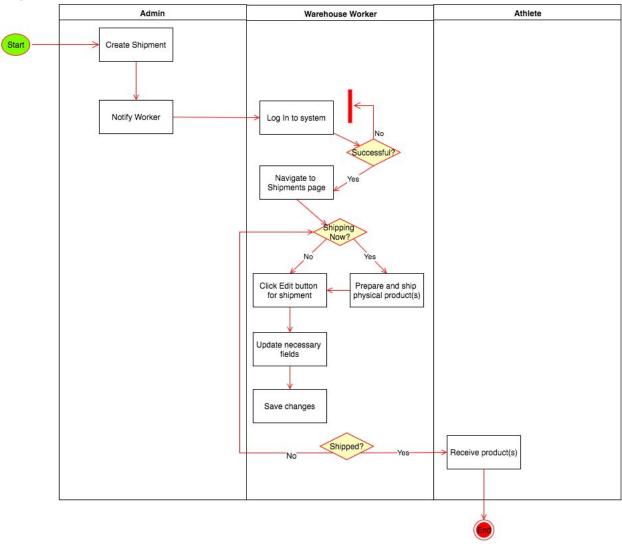
Use Case ID	UC-08		
Use Case Name	Disable Profile		
Description	Disable login capabilities for terminated users		
Actors	Admin		
Pre-Conditions	User profile exists and is currently active.		
Post-Conditions	Profile is marked as inactive, user can no longer log in.		
Frequency of Use	Rare - when an employee leaves the company or an athlete loses sponsorship		
Flow of Events		Actor Action	System Response
	1.	Log in	
	2.	Navigate to page for correct type of user (athlete, worker, or admin)	Display user page
	3.	Find needed user, click edit button	Open pop-up window with user editable fields
	4.	Update "status" field to "inactive"	
	5.	Click "save changes" button	Updates status field within database to inactive. Updates username and password to NULL values.
Variations	None		
Exceptions	None		
Developer Notes	None		

Activity Diagrams

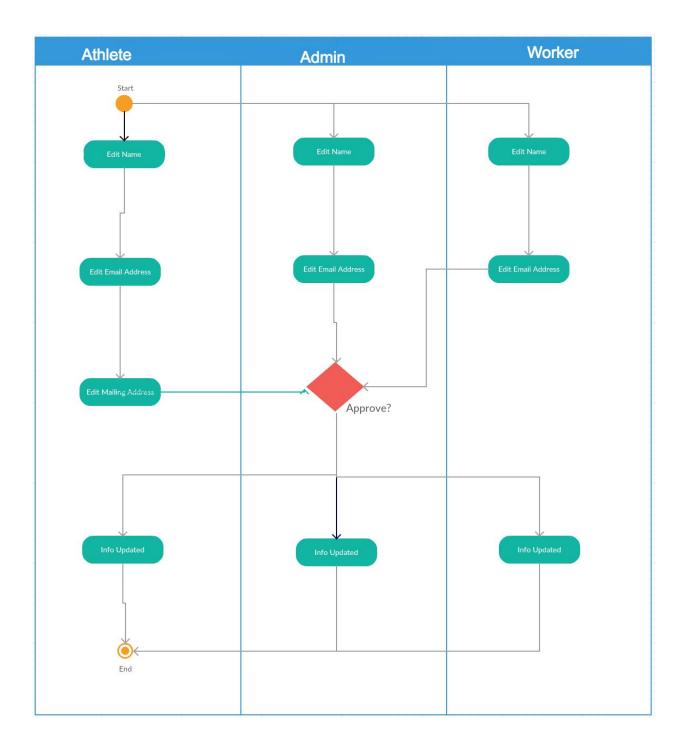
Matthew Uhlar - Ship Product For Athlete



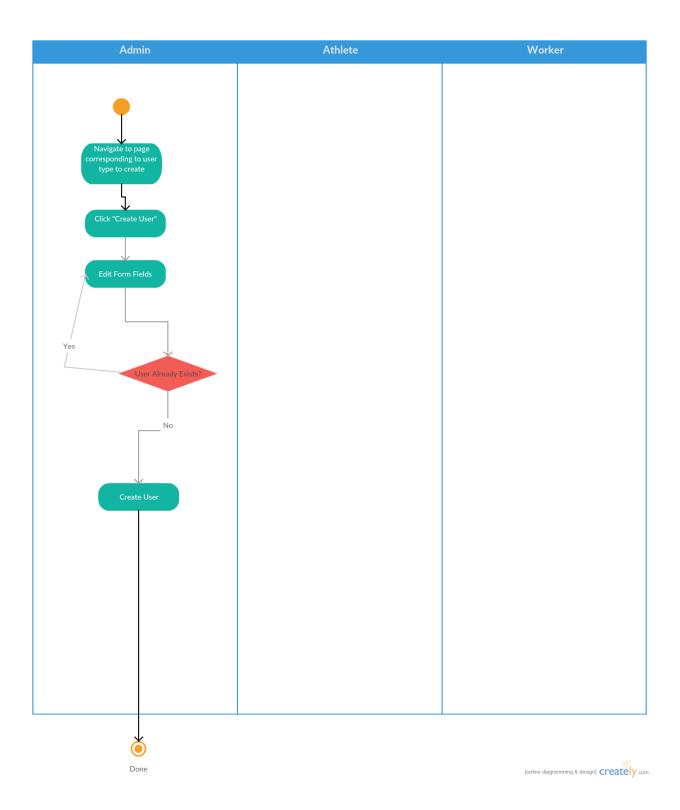
Lucy Wilkinson - Edit Shipment (UC-06 / UR-10)



Dmytro Ryzhkov - Edit Own Profile (UC-04)



Alex Goodwin - Create Profile (UC-07)



Data Storage

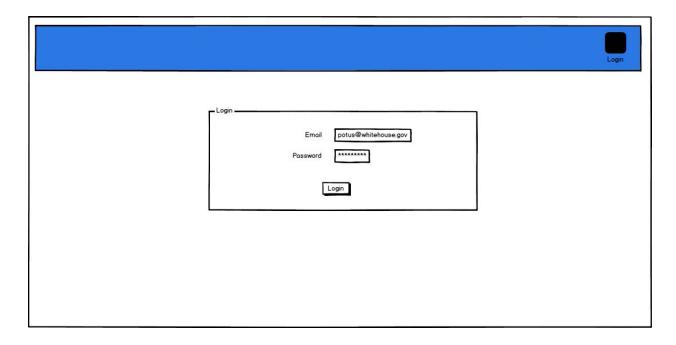
We are planning to use a relational database (mySQL) to store our data. We will have a user table with basic information and individual Admin, Athlete, and Warehouse Worker tables with

fields specific to those types of users. We will also have a table of products offered, and a table of pending/completed/cancelled shipments.

UI Mockups

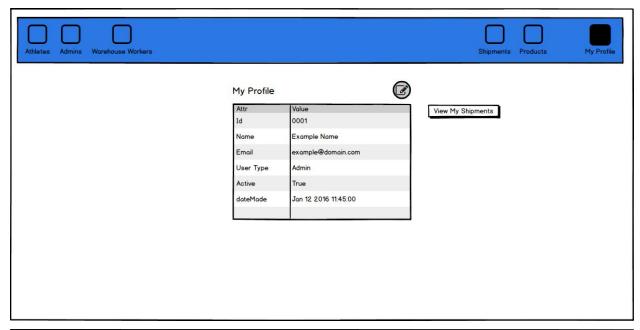
Login Page

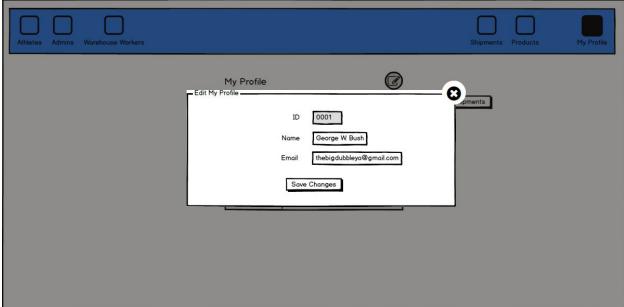
Accessed as first step for any user



User Profile Page

- Shows information for logged-in user, contains link to edit own info
- Admins
 - Can view their information
 - Can edit their information
- Athletes
 - Can view their information
 - Can edit their information
- Warehouse Workers
 - Can view their information
 - Can edit their information

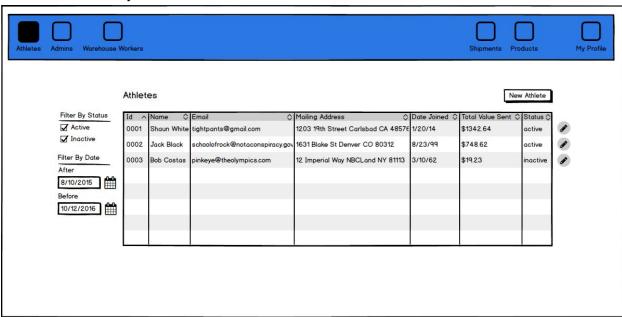


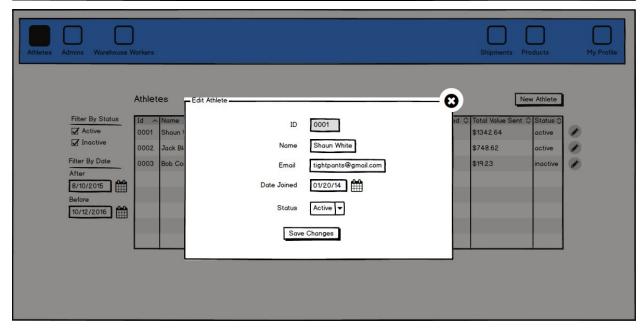


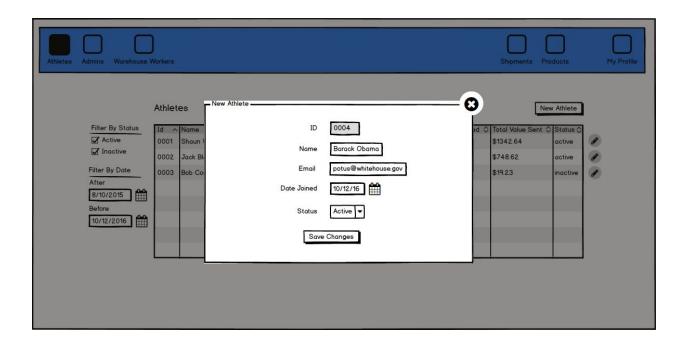
Athletes Page

- Contains list of all athletes sponsored by the company
- Ability to filter by date and/or status
- Admins
 - o Ability to view all athletes
 - Ability to create new athlete
 - Ability to edit all athletes
- Athletes
 - Ability to view only themselves
 - Ability to edit only themselves
- Warehouse Worker

- Ability to view all athletes
- Ability to create new athlete
- Ability to edit all athletes

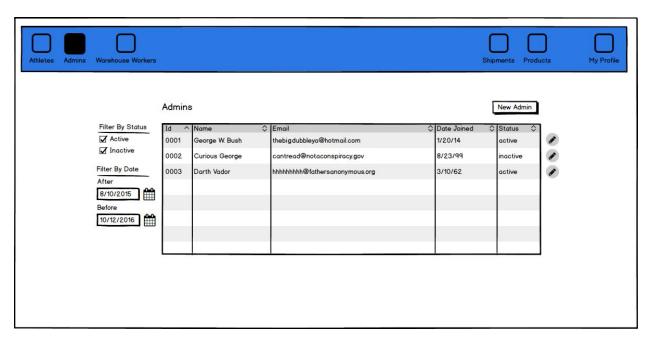


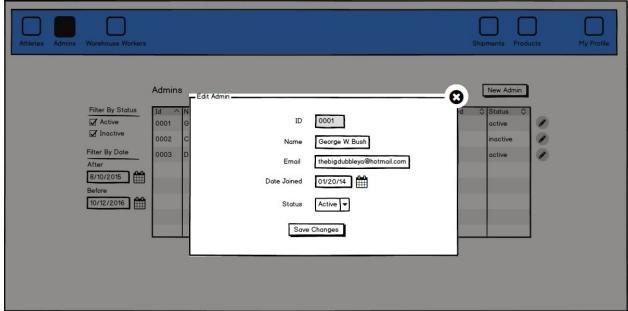


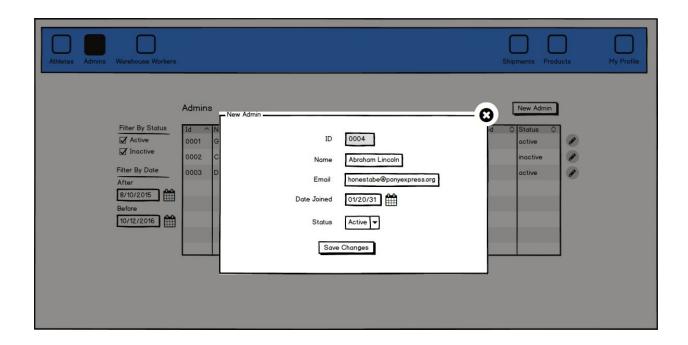


Admin List Page

- List all admins and their attributes
- Can be sorted by any attribute
- Can be filtered by status and/or date joined
- Admins
 - Can view all admins
 - Can edit all admins
 - Can create new admins
- Athletes
 - Cannot access
- Warehouse Workers
 - Cannot access

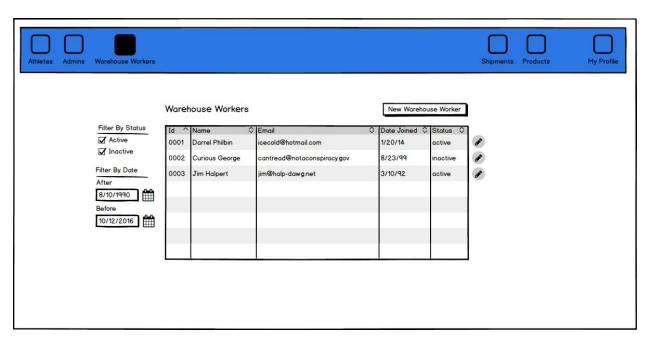


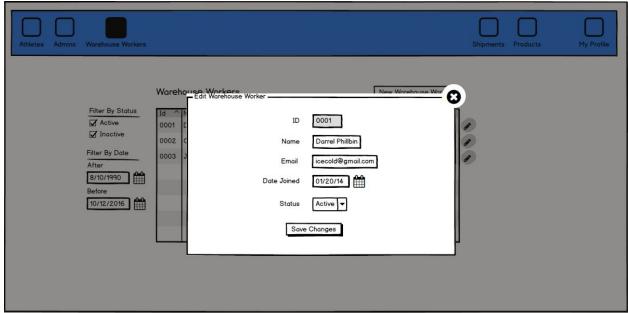


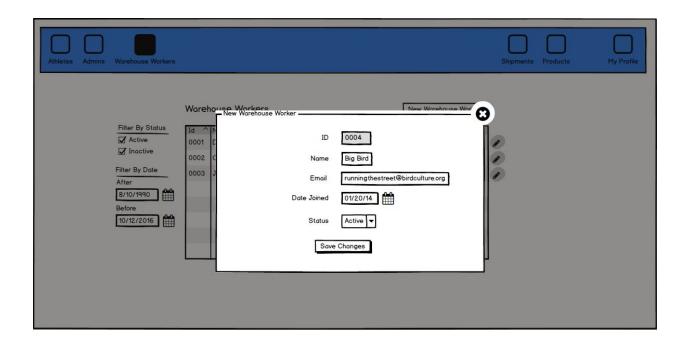


Warehouse Worker List Page

- List all warehouse workers and their attributes
- Can be sorted by any attribute
- Can be filtered by status and/or date joined
- Admins
 - Can view all warehouse workers
 - Can edit all warehouse workers
 - Can create new warehouse workers
- Athletes
 - Cannot access
- Warehouse Workers
 - Cannot access

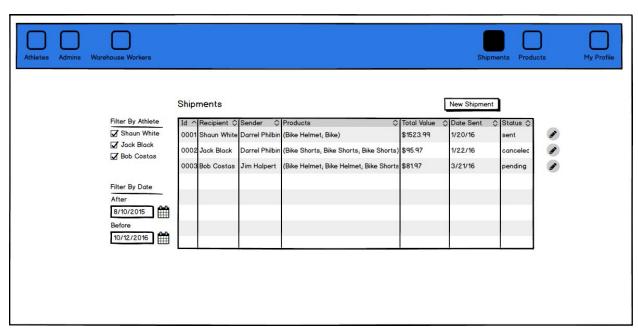


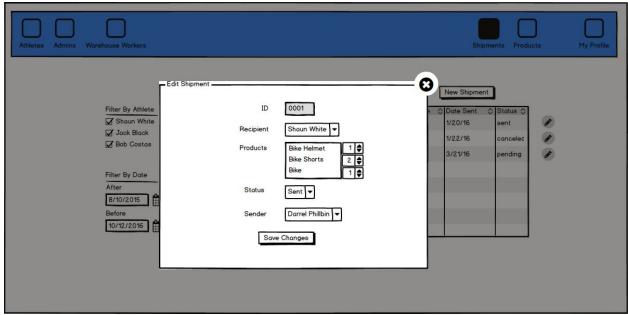


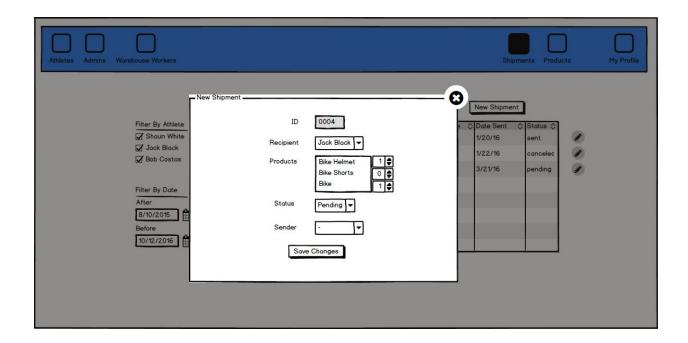


Shipments Page

- Lists all shipments and their attributes
- Can be sorted by any attribute
- Can be filtered by athlete and/or date sent
- Admins
 - Can view all shipments
 - Can edit all shipments
 - Can create new shipments
- Athletes
 - o Can view their own shipments
- Warehouse Workers
 - Can view all shipments
 - o Can edit all shipments (only to update status & date sent)

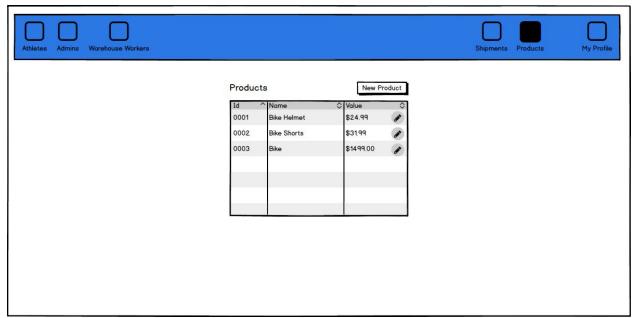


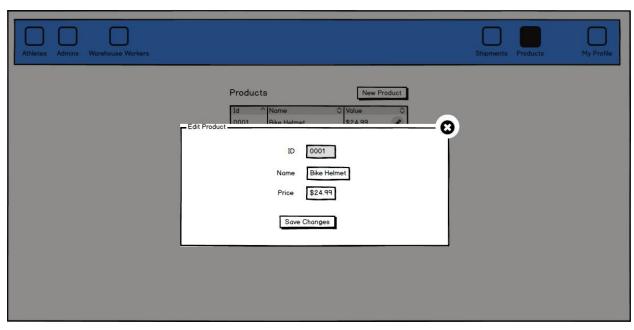


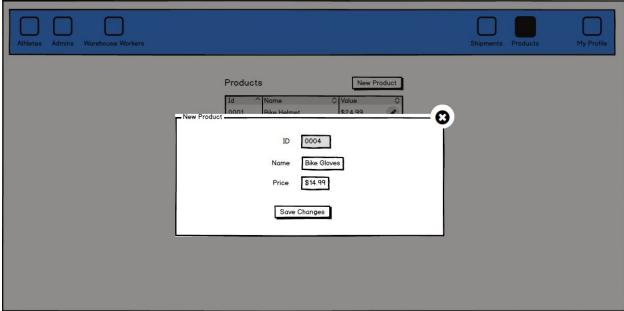


Products Page

- Lists all products and their attributes
- Admins
 - o Can view all products
 - Can edit all products
 - o Can create new products
- Athletes
 - Cannot access
- Warehouse Workers
 - o Cannot access

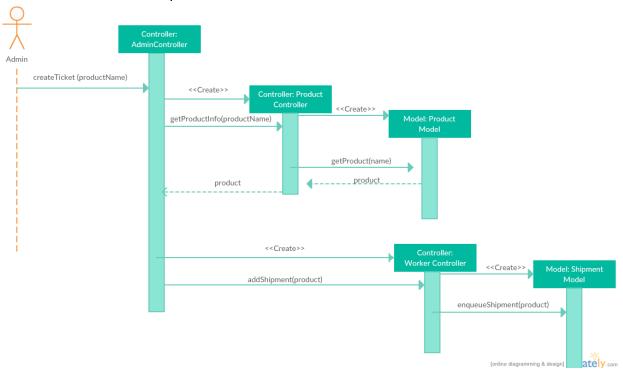




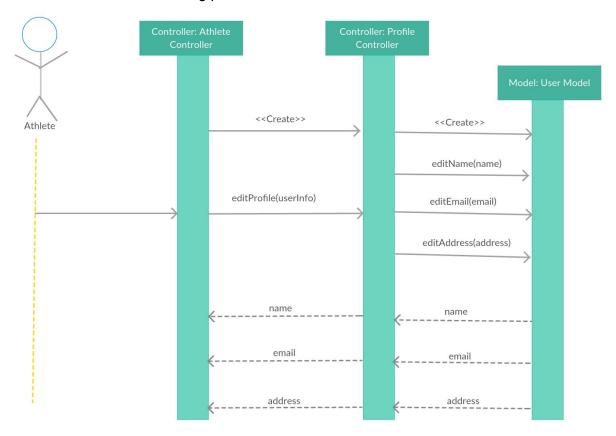


User Interactions

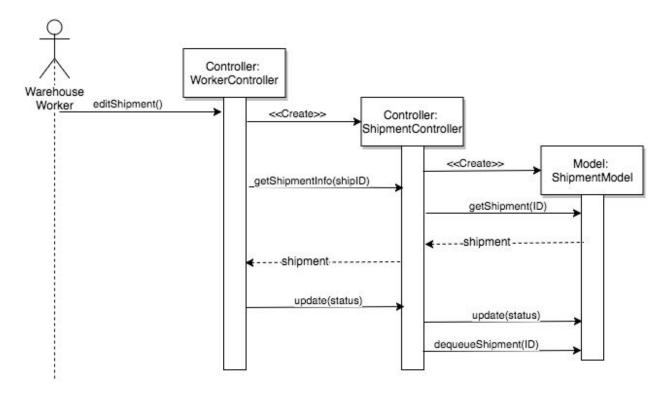
Matthew Uhlar - Create Shipment



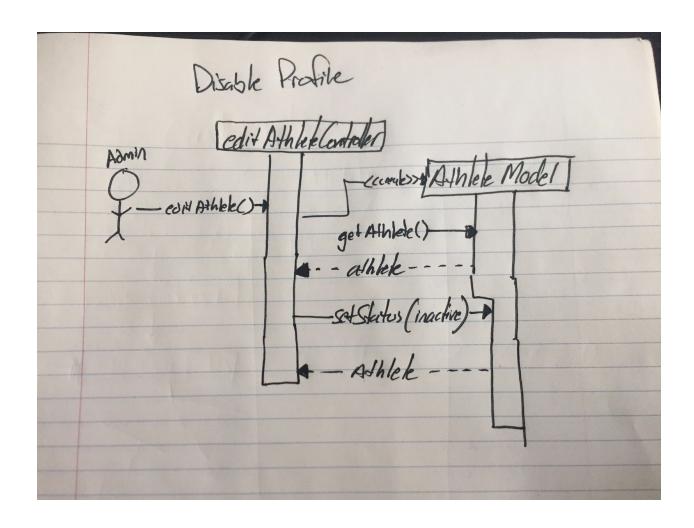
Dmytro Ryzhkov - UR-06 - UC-04 User is able to edit their existing profile information



Lucy Wilkinson - Edit Shipment (UC-06 / UR-10) Warehouse Worker can update shipment status.



Alex Goodwin - Disable Profile (UC-08)



Class Diagram

