# NUview App

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# Problem Definition & Project Overview

**Problem:** Students and faculty at Northeastern have no convenient way to view the occupancy levels in all recreational facilities nor make reservations independently. Recreational staff have to manually assist students and faculty in reserving courts and classes. Maintenance can't plan the best times to service equipment.

#### **Solution:**

This app will increase utilization and convenience in facilities by helping users:

- Plan workout schedules and minimize time wasted
- Make reservations without having to call
- View all schedules in one place

This app will increase effectiveness and simplicity by providing staff with:

- Less manual booking and reservation work
- Accurate monitoring for maintenance and cleaning

## **Assumptions & Constraints**

#### **Solution**

NUview will increase utilization and convenience in facilities by providing critical insight to users, and will increase effectiveness and efficiency for staff.

#### **Assumptions**

Northeastern University Boston Campus recreational facilities involved are: *Marino Center, SquashBusters, and Cabot Center* 

#### **Constraints**

- Gathering an adequate amount of information and data to support the application
- Data updates for occupancy levels need to be automated
- The development of the application will need to be outsourced as no IT resources are available internally

### Stakeholders



- Attend the rec facilities
- Front-end users of the app



- Work at the rec facilities
- Back-end users of the app



- Maintain equipment at rec facilities
- Front-end users of the app

### Personas



Ashley Petan



**Age:** 22

**Occupation:** Full-time student

**Location:** Boston, MA

**Bio:** Full-time student taking 19

credits

#### Goals:

- Fits workouts into a busy schedule
- Needs courts to practice for team sport but they are not always free



**Professor Smith** 



**Age:** 45

**Occupation:** Part-time faculty

**Location:** Somerville, MA

**Bio:** Works full-time and

teaches part-time

#### Goals:

 Would like to attend the school gym but has no time to wait for equipment to be available



John Doe



**Age:** 57

Occupation: Maintenance

**Location:** Boston, MA

**Bio:** A full-time maintenance employee for recreational facilities at NEU

#### Goals:

 Efficiently fix machines in a timely manner for use by members

### Solution

#### **Students and Faculty**





equipment occupancy class and court availability



#### Outputs:

equipment vacancy, class and court reservations equipment vacancy trends for cleaning and repair





Back-end

Front-end

**Maintenance Staff** 

# User and Functional Requirements



User Role	Campus Recreation Facility User
Goal U1	To view Building and equipment occupancy levels
U1.1	User selects view occupancy and chooses building and equipment from given options and then hits enter
Goal U2	To reserve Court or Studio room
U2.1	User selects book courts or studio room option on the application homepage
Goal U3	Register a guest
U3.1	User logs in and selects the building the guest wants to use
Goal U4	Register for fitness class
U4.1	User logs in and selects a building

# User and Functional Requirements



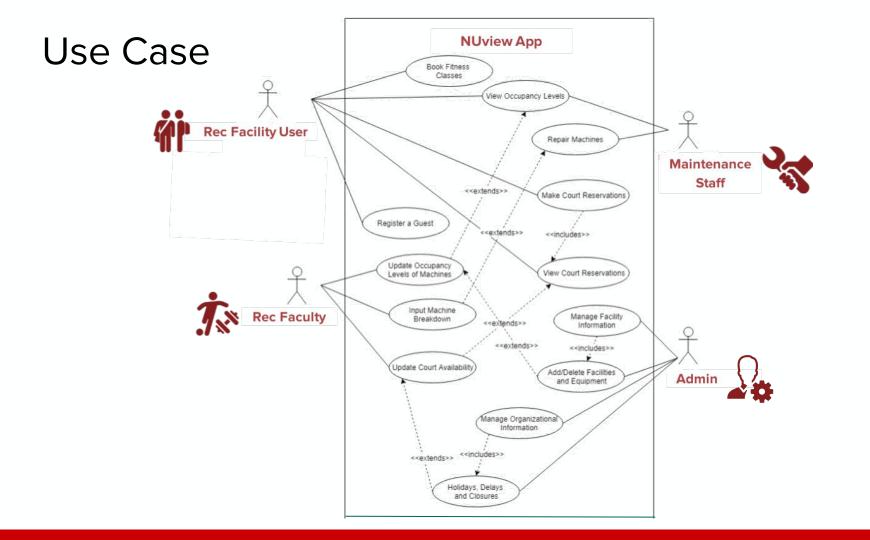
User Role	Rec Facility Staff
Goal U1	To update occupancy level
Goal U2	Manage court reservations and availability
Goal U3	Submit Work Order for equipment breakdowns



User Role	Maintenance Staff
Goal U1	View maintenance/breakdowns reports
Goal U2	View occupancy levels



User Role	Admin
Goal U1	Add new facilities
Goal U2	Add new equipment to facilities



# Process Diagram

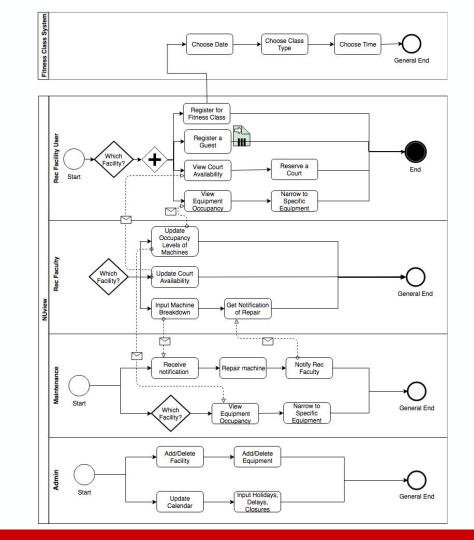
### **Pool: NUview App**

Swim-lanes:

- Rec Facility User
- Rec Faculty
- Maintenance

#### **Pool: Fitness Class System**

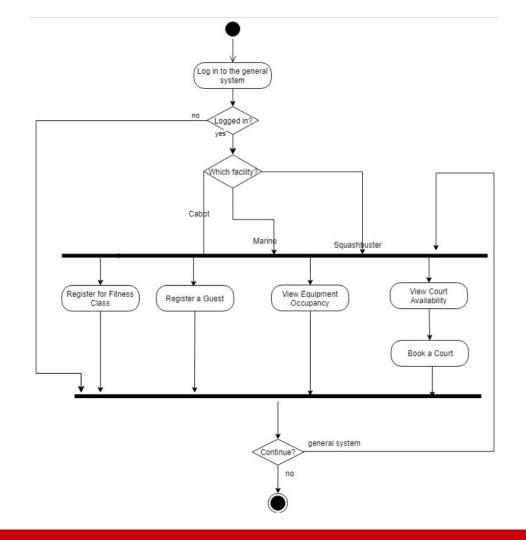
 Separate application; using its functionality



### **Assumption:**

Only showing *Rec Facility User* point-of-view

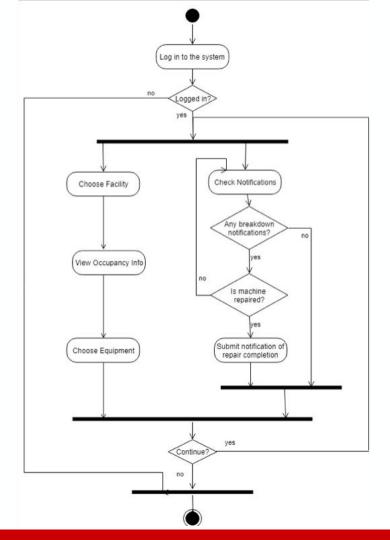




### **Assumption:**

Only showing *Maintenance Staff* point-of-view

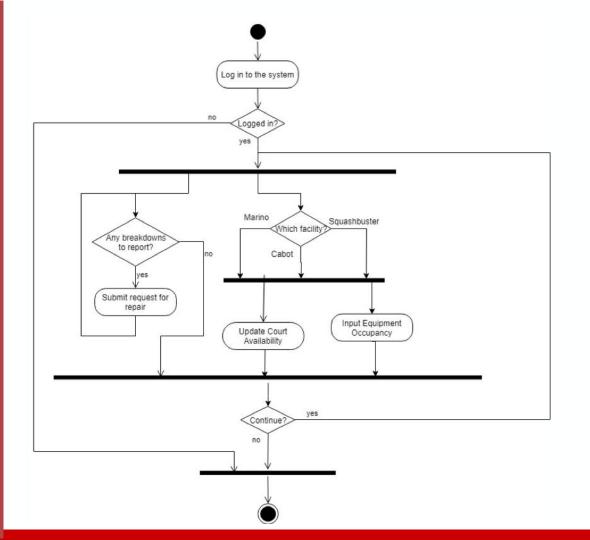




### **Assumption:**

Only showing *Rec Facility Staff* point-of-view

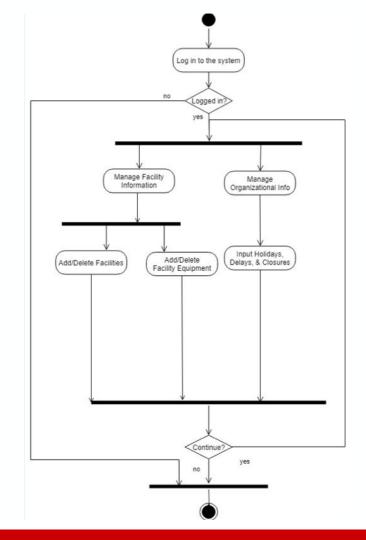


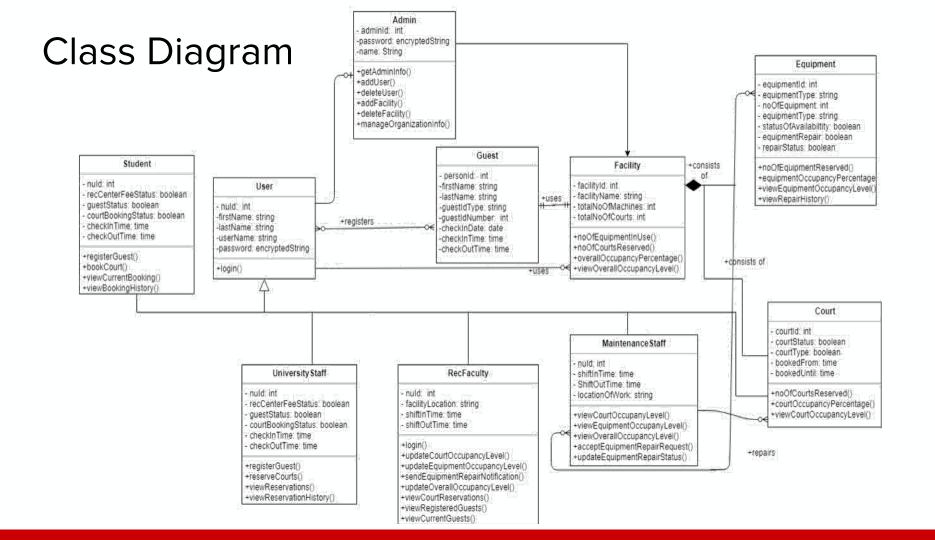


### **Assumption:**

Only showing *Admin* point-of-view

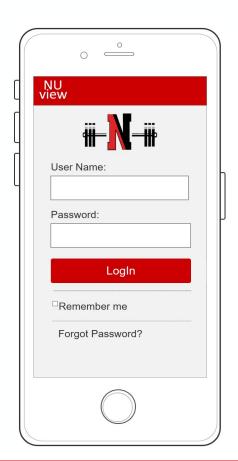


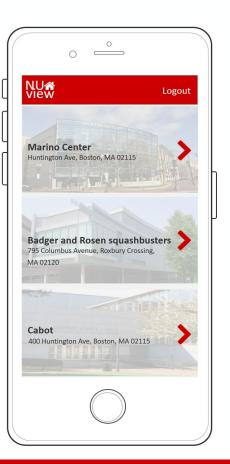




### Demo of NUview







# Thank you! **Questions?**

