

You have been hired to engineer an Equipment Inventory, tracking site for Kobold Camp, a local nature & hiking experience park. Among Kobold's many activities and offerings, they have a large amount of outdoor equipment that they loan out to their members.

The general purpose of the site is to allow visitors to view the available equipment for loan, allow employees to check in & out equipment to members, and allow admins to add and remove equipment or employees.

Project Requirements:

- Documentation
 - Iteration plan (at least 3 iterations over 2 week period)
 - Assign User Stories
 - Features
 - Site Diagram
 - JSP Pages
 - Endpoints
 - UML Diagram
 - Controllers
 - DTOs
 - DAO
 - Prepared SQL Statements
 - Methods & Properties
 - Features
 - General purpose
 - User Stories
 - Wire Frames
 - Testing
 - All DAO methods MUST have an associated junit test.
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The user stories are as follows:

1. A visitor to the camp navigates to the main page, and sees the general Kobold Camp information & mission statement.
 - a. Also available is a menu bar for the home (above) and another for the available equipment list, and a username/password input, w/ a button to log in to the site. Once logged in, the login button changes to a logout.
 - b. Upon clicking on the menu bar equipment list link, they are taking to a page that lists all currently available (i.e. not checked out and/or damaged etc.) equipment, displayed in a table. (Wireframe: Rentals)

2. A camp member navigates to the main page, and sees the main page w/ the menu bar for the home and equipment link, and the username/password inputs w/ button to log in. They correctly submit their username & password, and hit the login button. The page refreshes, and the main page has an updated menu bar that includes a profile link, and the login inputs have been replaced by a logout link.
 - a. Upon successful login, the profile link in the menu bar directs to a page that shows the users name & email, and a personal history of all the equipment checkin/checkouts associated with that user.
 - i. The history is displayed in a static table.
 - ii. The profile information is displayed in a form, that is also able to be submitted to update profile information such as the first/last names, email & phone number. User Id, username are not editable.
 - iii. There is also a form to update the password, and the passwords must match.
 - b. Upon successful login, the logout link will log out the user, and redirect to the home page.
 - i. Any information not submitted will be lost upon logout.
3. Upon successful login, an employee will see their home page refresh with a menu bar that includes Home, Rentals, Assets, Members, Profile.
 - a. The Assets page displays a list of all assets, and their current status.
 - i. Inputting a value into the Search and hitting search, will filter the displayed assets by the inputs given in a static table.
 1. Asset information is displayed in a static table.
 2. Pagination requested as bonus feature but not required.
 - ii. Clicking on View, will navigate to a new page, and display the information about that asset, as well as the checkout history.
 1. Asset history information is displayed in a static table.
 2. Pagination requested as bonus feature but not required
 - iii. Clicking on Edit Status, will toggle a modal, which will allow the status of that equipment to be updated.
 1. All statuses (Available, Checked Out, Broken, Lost) should be available as a selection within the modal.
 2. To edit, a member id will be required, and the employee id associated with the user logged in will also be sent as part of the database record log when update is submitted.
 3. No popup needed for submit here, and delete option should not be visible to employees.
 - b. The Members page displays a list of all members
 - i. Inputting a value into the Search and hitting search, will filter the displayed members by the inputs given.
 1. Member information is displayed in a static table.
 2. Pagination requested as bonus feature but not required.

- ii. Inputting values into the Add Member form, and clicking the add member button, will add the user into the database if all information is correct, and display in the list of members. The add member form will also be cleared. The member will always just have the member if entered by an employee, and the default password will be "kobolds-r-great!"
 - 1. Information includes username, first & last name, email and phone number. UserId assignment will be handled by the database, and the username must be unique.
 - 2. If the information is not correct, the proper errors will be displayed next to the field.
 - 3. If the information is corrected and resubmitted, it will properly update the database/display with the new user.
- 4. Upon successful login, an admin will see their home page refresh with a menu bar that includes Home, Rentals, Assets, Members, Admin, Profile
 - a. The Assets page displays a list of all assets, and their current status.
 - i. All employee available abilities are also available to admins.
 - ii. However, when clicking on Edit, the Status modal should also now show the ability to toggle a delete equipment checkbox that, after a popup asking if they are sure, will remove that equipment from the
 - b. The Members page displays a list of all members
 - i. All employee available abilities are also available to admins.
 - ii. The Add Member will also have 2 checkboxes visible only to Admins, to also add employee & admin roles to an inputted user.
 - c. The Admin page displays a minimal display of all members in the database, and also allows the admin to input new equipment.
 - i. Clicking delete on a member row will prompt the user, and if accepted, will delete that individual from the system.
 - ii. Clicking the Reset Password link on a user row will reset that user's password to "kobolds-r-great!". As this is only an in-person on-request feature, no other notification is given to the user – emailing password reset notification etc. is outside of scope.
 - iii. Inputting values into the Add Equipment form, and clicking the add equipment button, will add the equipment with a base status of "available" into the database if all other information is correct. The add equipment form will also be cleared.
 - 1. If the information is not correct, the proper errors will be displayed next to the field.
 - 2. If the information is corrected and resubmitted, it will properly update the database/display with the new user.