

# Submission Worksheet

1.

**2.**  
**CLICK TO GRADE**

<https://learn.ethereallab.app/assignment/IT202-008-S2024/it202-api-project-milestone-2-2024/grade/bns24>

4.  
5.

6.

IT202-008-S2024 - [IT202] API Project Milestone 2 2024

7.  
8.

9.  
10.

## Submissions:

Submission Selection

1 Submission [active] 4/14/2024 10:34:53 PM

## Instructions

**▲ COLLAPSE ▲**

Implement the Milestone 2 features from the project's proposal

document: <https://docs.google.com/document/d/1XE96a8DQ52Vp49XACBDTNCq0xYDt3kF29cO88E>

Make sure you add your ucid/date as code comments where code changes are done

All code changes should reach the Milestone2 branch

Create a pull request from Milestone2 to dev and keep it open until you get the output PDF from this assignment.

Gather the evidence of feature completion based on the below tasks.

Once finished, get the output PDF and copy/move it to your repository folder on your local machine.

Run the necessary git add, commit, and push steps to move it to GitHub

Complete the pull request that was opened earlier

Create and merge a pull request from dev to prod

Upload the same output PDF to Canvas

**Branch name:** Milestone2

**Tasks:** 29 **Points:** 10.00

 Define Appropriate Tables for Data (1 pt.)

**▲ COLLAPSE ▲**

 Task #1 - Points: 1

Text: Screenshots of Table SQL

**Checklist**

\*The checkboxes are for your own tracking

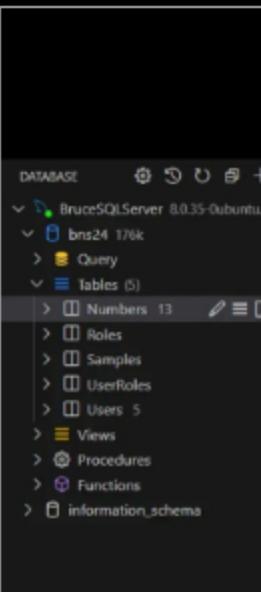
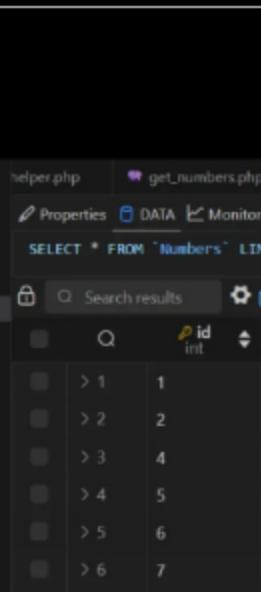
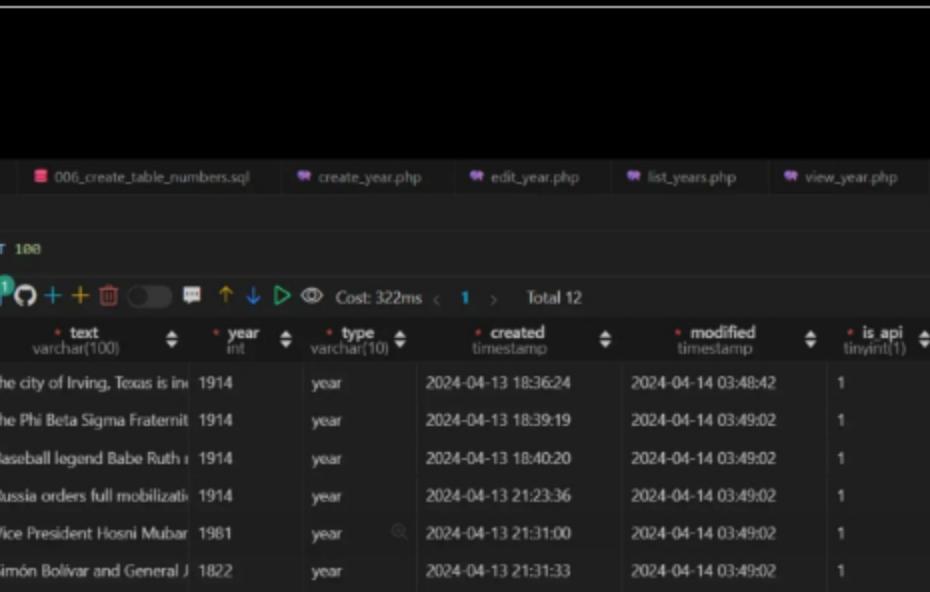
#	Points	Details
---	--------	---------

#	Points	Details
■ #1	1	Table(s) should have the 3 core columns we'll always be using (id, created, modified) plus additional columns for the incoming API data
■ #2	1	Columns should be logical and thought out (not valid to have a single field of JSON data or similar)
■ #3	1	Clearly caption screenshots

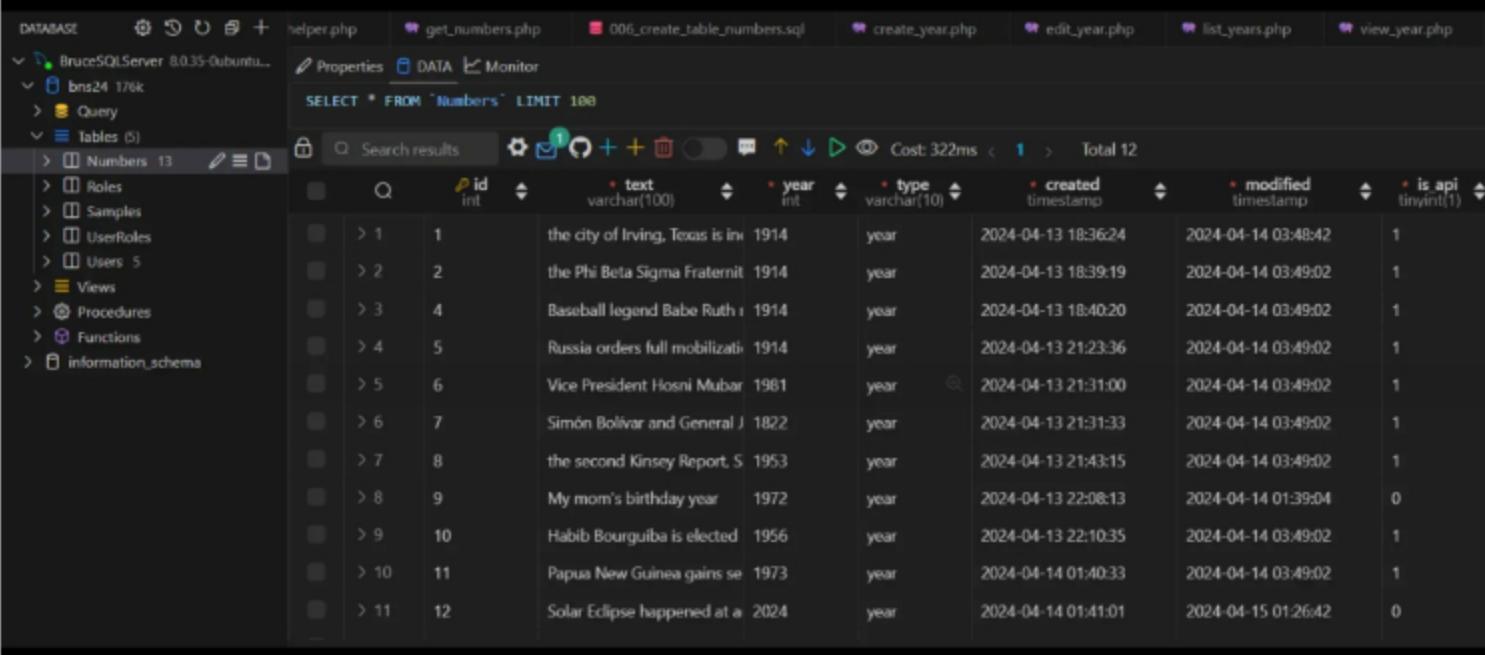
Task Screenshots:

**Gallery Style: Large View**

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Small	Medium	Large
		



Q	id	text	year	type	created	modified	is_api
1	1	the city of Irving, Texas is incorporated.	1914	year	2024-04-13 18:36:24	2024-04-14 03:48:42	1
2	2	the Phi Beta Sigma Fraternity is founded.	1914	year	2024-04-13 18:39:19	2024-04-14 03:49:02	1
3	4	Baseball legend Babe Ruth is born.	1914	year	2024-04-13 18:40:20	2024-04-14 03:49:02	1
4	5	Russia orders full mobilization.	1914	year	2024-04-13 21:23:36	2024-04-14 03:49:02	1
5	6	Vice President Hosni Mubarak is elected.	1981	year	2024-04-13 21:31:00	2024-04-14 03:49:02	1
6	7	Simón Bolívar and General José de San Martín meet.	1822	year	2024-04-13 21:31:33	2024-04-14 03:49:02	1
7	8	the second Kinsey Report is published.	1953	year	2024-04-13 21:43:15	2024-04-14 03:49:02	1
8	9	My mom's birthday year.	1972	year	2024-04-13 22:08:13	2024-04-14 01:39:04	0
9	10	Habib Bourguiba is elected.	1956	year	2024-04-13 22:10:35	2024-04-14 03:49:02	1
10	11	Papua New Guinea gains independence.	1973	year	2024-04-14 01:40:33	2024-04-14 03:49:02	1
11	12	Solar Eclipse happened at a total solar eclipse.	2024	year	2024-04-14 01:41:01	2024-04-15 01:26:42	0

Screenshot of SQL Table `Numbers` with the 3 core columns and added columns. The datatypes for the added columns are logical.

Checklist Items (0)

### Task #2 - Points: 1

Text: Explain the design

Checklist		*The checkboxes are for your own tracking
#	Points	Details
■ #1	1	Note the different fields and their purpose
■ #2	1	Note if you needed to normalize the data into separate tables or if one table fit your needs

Response:

Table has the 3 core columns, as well as a "text" and "year" column, which can either be gathered from the API or from the user. Text takes in a sentence with at max 100 characters, and year is an integer. The "text" field is supposed to be used to display a fact about the "year" field. I didn't really need multiple tables to handle this because the info gathered is relatively simple.

### Task #3 - Points: 1

Text: Add the pull request link for the branch related to this feature

#### Details:

Note: the link should end with /pull/#. Same pull request shouldn't be used for each feature.

#### URL #1

<https://github.com/BruceSiaNJIT/bns24-it202-008/pull/39>

### Data Creation Page (2 pts.)

### Task #1 - Points: 1

Text: Screenshots of the creation page

#### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Show potentially valid data filled in for the custom creation page
<input checked="" type="checkbox"/> #2	1	Show how the API data is fetched for API data (must be server-side)
<input checked="" type="checkbox"/> #3	1	Show examples of validation messages
<input checked="" type="checkbox"/> #4	1	Show an example of successful creation message
<input checked="" type="checkbox"/> #5	1	Design/Style should be considered (i.e., bootstrap, custom css, etc)
<input checked="" type="checkbox"/> #6	1	Make sure the heroku dev url is visible in the address bar
<input checked="" type="checkbox"/> #7	1	Clearly caption screenshots

#### Task Screenshots:

##### Gallery Style: Large View

Small

Medium

Large

← → ⌂ bns-it202-008-dev-12e4f32970b4.herokuapp.com/project/admin/create\_year.php#

YEAR FACTOIDS

Home Profile Admin ▾ Year Management ▾ Logout

Create or Fetch Year

## Create or Fetch Year

Fetch   Create

Year Number

2005

Year Info

My birthyear!

Type

year

Create

Potentially Valid data filled in for the custom creation page.

Checklist Items (0)



← → C

bns-it202-008-dev-12e4f32970b4.herokuapp.com/project/admin/create\_year.php#

YEAR FACTOIDS

Home Profile Admin ▾ Year Management ▾ Logout

## Create or Fetch Year

Fetch   Create

2003

Search

You put a year, then a random fact is taken from the API about the year, in this example, 2003.

Checklist Items (0)



← → C

bns-it202-008-dev-12e4f32970b4.herokuapp.com/project/admin/create\_year.php#

YEAR FACTOIDS

Home Profile Admin ▾ Year Management ▾ Logout

# Create or Fetch Year

Fetch   Create

Year Number

! Please fill out this field.

Year Info

My birthyear!

Type

year

Create

Validation in case the year number field is left empty.

Checklist Items (0)

← → C bns-it202-008-dev-12e4f32970b4.herokuapp.com/project/admin/create\_year.php#

YEAR FACTOIDS

Home Profile Admin ▾ Year Management ▾ Logout

Inserted record 26

# Create or Fetch Year

Fetch   Create

Year Number

Search

Successful creation message.

Checklist Items (0)

Task #2 - Points: 1

Task: Screenshots of creation page code

COLLAPSE

## Checklist

\*The checkboxes are for your own tracking

#	Points	Details
#1	1	Form should have correct data types for each property being requested
#2	1	Form should have correct validation for each field (HTML, JS, and PHP)
#3	1	Successful creation should have a user-friendly message
#4	1	Any errors should have user-friendly messages
#5	1	Include the form/process for fetching API data
#6	1	Include some indicator between custom data and API data
#7	1	Include any other rules like role guards and login checks
#8	1	Include ucid/date comments for each code screenshot
#9	1	Clearly caption screenshots

## Task Screenshots:

Gallery Style: Large View

Small      Medium      Large



```

public_html > project > admin > create_year.php > div.container-fluid > div#create.tab-target > form
69   <div class = "container-fluid">
70     <ul class = "nav nav-tabs">
71       <li class = "nav-item bg-info">
72         <a class = "nav-link" href = "#" onclick = "switchTab('fetch')>Create</a>
73       </li>
74     </ul>
75
76     <div id = "fetch" class = "tab-target">
77       <form method="POST">
78         <?php render_input(["type" => "search", "name" => "number", "placeholder" => "Year Number", "rules" => ["required" => "required"]]);/*lazy value to check if fo
79         <?php render_input(["type" => "hidden", "name" => "action", "value" => "fetch"]);?>
80         <?php render_button(["text" => "Search", "type" => "submit", ]); ?>
81       </form>
82     </div>
83     <div id = "create" style = "display:none;" class = "tab-target">
84       <form method="POST">
85         <!-- bins24 84/14/24 -->
86         <?php render_input(["type" => "number", "name" => "number", "placeholder" => "Year Number", "label" => "Year Number", "rules" => ["required" => "required"]));/
87         <?php render_input(["type" => "text", "name" => "text", "placeholder" => "Year Info", "label" => "Year Info", "rules" => ["required" => "required"]));/*lazy va
88         <?php render_input(["type" => "select", "name" => "type", "label" => "Type", "options" => ["year" => "year"], "rules" => ["required" => "required"]));/*lazy val
89         <?php render_input(["type" => "hidden", "name" => "action", "value" => "create"]);?>
90         <?php render_button(["text" => "Search", "type" => "submit", "text" => "Create"]); ?>
91       </form>
92     </div>
93   </div>
94
95
96
97
98

```

Form with the correct types of datatypes that should be entered.

## Checklist Items (0)



```

<?php /* Include margin open tag */ ?>
<?php if ($_include_margin) : ?>
    <div class="mb-3">
        <?php endif; ?>
        <?php if ($_label) : ?>
            <?php /* Label field bns24 04/14/24*/ ?>
            <label class="form-label" for=<?php se($_id); ?>><?php se($_label); ?></label>
        <?php endif; ?>

        <?php if (!in_array($_type, $_non_standard_types)) : ?>
            <?php /* Input field */ ?>
            <input type=<?php se($_type); ?> name=<?php se($_name); ?> class="form-control" id=<?php se($_id); ?> value=<?php se($_value); ?> placeholder=<?php se($_placeholder); ?>>
            <?php echo $_rules; ?>
        <?php elseif($_type === "textarea") : ?>
            <textarea class="form-control" name=<?php se($_name); ?> id=<?php se($_id); ?> placeholder=<?php se($_placeholder); ?>> <?php echo $_rules; ?><?php se($_value); ?>
        <?php elseif ($_type == "select") : ?>
            <select class="form-select" name=<?php se($_name); ?> value=<?php se($_value); ?> id=<?php se($_id); ?>>
                <?php foreach ($options as $k => $v) : ?>
                    <option <?php echo (isset($v) && $v === $k) ? "selected" : ""> value=<?php se($k); ?>><?php se($v); ?></option>
                <?php endforeach; ?>
            </select>
        <?php endif; ?>

```

I call render\_input which leads to this code, which checks the type and makes sure the form has the right type of validation.

## Checklist Items (0)



```

$query .= "(" . join(", ", $columns) . ")";
$query .= "VALUES (" . join(", ", array_keys($params)) . ")";
error_log("Query: " . $query);
error_log("Params: ". var_export($params, true));
//bns24 04/14/24
try{
    $stmt = $db->prepare($query);
    $stmt->execute($params);
    flash("Inserted record " . $db->lastInsertId(), "success");
}catch(PDOException $e){
    if($e->errorInfo[1] == 1062){
        flash("Another year has the same description, please use another description.", "warning");
    }else{
        error_log("Something went wrong.");
        flash("An error occurred.", "danger");
    }
} <- #59-66 catch(PDOException $e)

```

If the query is correct and valid, then it flashes a user friendly message saying that it was inserted. Otherwise, if there is another record with the same text description, then it flashes a user friendly message saying that another year has the same description, otherwise it just says an error occurred.

## Checklist Items (0)



```
<?php
//handle year fetch bns24 04/14/24
if(isset($_POST["action"])){
    $action = $_POST["action"];
    $year = se($_POST, "number", "", false);
    if($year){
        if($action === "fetch"){
            $result = fetch_quote($year);
            if($result){
                $result["is_api"] = 1;
            }
        }
    }
}
```

The form for the fetch has an action "fetch" associated with it. If the action is "fetch" then it calls fetch\_quote.

## Checklist Items (0)



```
lib > year_api.php > fetch_quote
1  <?php
2  //bns24 04/14/24
3
4  function fetch_quote($yearnum){
5      $result = get("https://numbersapi.p.rapidapi.com/$yearnum/year", "NUMBER_API_KEY", ["fragment" => true, "json" => true]);
6
7      if (se($result, "status", 400, false) == 200 && isset($result["response"])) {
8          $result = json_decode($result["response"], true);
9      } else {
10         $result = [];
11     }
12
13     return $result;
14 } <- #4-14 Function fetch_quote($yearnum)
15
16 ?>
```

## Checklist Items (0)

```
<?php
//handle year fetch bns24 04/14/24
if(isset($_POST["action"])){
    $action = $_POST["action"];
    $year = se($_POST, "number", "", false);
    if($year){
        if($action === "fetch"){
            $result = fetch_quote($year);
            if($result){
                $result["is_api"] = 1;
            }
        }else if($action === "create"){
            foreach($_POST as $k => $v){
                if(!in_array($k, ["number", "text", "type"])){
                    unset($_POST[$k]);
                }
            }
            $result = $_POST;
        } <- #23-28 foreach($_POST as $k => $v)
    } <- #22-29 else if($action === "create")
}
```

Shows the difference between custom data and API data with the different action names "fetch" and "create"

## Checklist Items (0)

```
public_html > project > admin > 📄 create_year.php > ...
1  <?php
2  //note we need to go up 1 more directory bns24 04/14/24
3  require(__DIR__ . "/../../../../partials/nav.php");
4
5  if (!has_role("Admin")) {
6      flash("You don't have permission to view this page", "warning");
7      die(header("Location: $BASE_PATH" . "/home.php"));
8  }
9 ?>
```

## Checklist Items (0)

## Task #3 - Points: 1

Text: Screenshot of records from DB

## Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Show at least one record fetched from the API
<input checked="" type="checkbox"/> #2	1	Show at least one record created via the creation form
<input checked="" type="checkbox"/> #3	1	Note what differs
<input checked="" type="checkbox"/> #4	1	Clearly caption screenshots

## Task Screenshots:

Gallery Style: Large View

Small

Medium

Large



id	text	year	type	created	modified	is_api
8	the second Kinsey Report, S	1953	year	2024-04-13 21:43:15	2024-04-14 03:49:02	1

Record fetched from the api. You can see that the is\_api column is noted as "1" showing that it is from the API.

## Checklist Items (0)



id int	text varchar(100)	year int	type varchar(10)	created timestamp	modified timestamp	is_api tinyint(1)
9	My mom's birthday year	1972	year	2024-04-13 22:08:13	2024-04-14 01:39:04	0

Record created via the creation form. You can see the is\_api column is 0, meaning that this was not fetched from the API and was created through creation form.

## Checklist Items (0)

### Task #4 - Points: 1

**Text:** Explain the process

#### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Provide a high-level step-by-step of how fetching API data works and gets added to your DB (include how duplicates are handled)
<input checked="" type="checkbox"/> #2	1	Provide a high-level step-by-step of how creating custom data works and gets added to your DB (include how duplicates are handled)
<input checked="" type="checkbox"/> #3	1	Briefly describe the validations for the applicable fields
<input checked="" type="checkbox"/> #4	1	Describe how duplicate data is handled

#### Response:

For fetching API data, the form simply has one parameter which is the year variable. The form has a POST method and the action "fetch" associated with it. A PHP script checks if the form with the action was submitted, then sets the parameter to a variable called year. If the year does exist, and if it was a "fetch" action, it called a function called fetch\_quote, with the year passed in as the parameter. It also sets the is\_api column to 1. The fetch quote function comes from another PHP file, which takes the year as the variable. It gets the text associated with that year number from the API using the get method and returns the result. Now personally, the API that I have was a little weird in the sense that it had the "year" column as "number" which confused things. But regardless, I create a query, and go through the key-value pairs of the result, accounting for any weird things conditions in the API. Once that is done and the query is finalized, we use a try catch and try to insert the record if the query is valid. If it is, we flash a success

message, and if it is not, then we check if the text is a duplicate. If it is, we flash a message saying to try again, and if it isn't then we flash a message saying an error occurred.

For creating custom data, we have another form with more parameters for the year, the text, and the type. The year field checks to see if it is a number, the text field checks to see if it is a text, and the type field is a dropdown. I had earlier plans to have more than one option, but I didn't have time to implement but I decided to keep it in case I want to work on it further. The same PHP script checks if the form with the action was submitted, then sets the parameter to the variable called year. If it does exist and if the action was "create", we make sure that the keys are only the ones that we need and return the result. The default value for is\_api is 0, so we don't change or do anything to it. We prepare the same query statement, this time using the result variable from the custom form. We use the same try catch to see if the query is valid, if it is then we flash a success message, otherwise we check if the text field is a duplicate and flash a warning message, otherwise we let the user know that a general error occurred.

#### Task #5 - Points: 1

Text: Add related links

##### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Include the heroku prod link for this page
<input checked="" type="checkbox"/> #2	1	Add the pull request link for the branch related to this feature Note: the link should end <code>wpilib/#</code> . Same pull request shouldn't be used for each feature

##### URL #1

[https://bns24-it202-008-prod-4d42e45e31d0.herokuapp.com/project/admin/create\\_year.php#](https://bns24-it202-008-prod-4d42e45e31d0.herokuapp.com/project/admin/create_year.php#)

##### URL #2

<https://github.com/BruceSiaNJIT/bns24-it202-008/pull/39>

#### Data List Page (many entities) (2 pts.)

[^COLLAPSE ^](#)

#### Task #1 - Points: 1

Text: Screenshots of the list page

##### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Show the page of your entities listed (have a reasonable number shown)
<input checked="" type="checkbox"/> #2	1	Show the filter/sort form based on your data and the required limit field
<input checked="" type="checkbox"/> #3	1	Demonstrate a few varied filters/sorts
<input checked="" type="checkbox"/> #4	1	Demonstrate a filter that doesn't have any records (should show an appropriate message)
<input checked="" type="checkbox"/> #5	1	Each list item should have a link of single view (i.e., details), edit, and delete (some of which may only be visible to admin users)

<input checked="" type="checkbox"/>	#6	1	Each list item should have a summary of the entity (likely won't be the entire entity data)
<input checked="" type="checkbox"/>	#7	1	Design/Style should be considered (i.e., bootstrap, custom css, etc)
<input checked="" type="checkbox"/>	#8	1	Make sure the heroku dev url is visible in the address bar
<input checked="" type="checkbox"/>	#9	1	Clearly caption screenshots

## Task Screenshots:

**Gallery Style: Large View**

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Small      Medium      Large

The screenshot shows the page with a reasonable number of entities shown. It also shows the filter form and the required LIMIT field. Also visible view, edit, and delete link. Each list item has a summary of the data including year, type, and text.

## Checklist Items (0)

the Phi Beta Sigma Fraternity, Inc. is founded at Howard University in Washington, D.C	1914	year	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Baseball legend Babe Ruth makes his major league debut with the Red Sox	1914	year	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Russia orders full mobilization	1914	year	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>

Filter just for the year 1914.

### Checklist Items (0)

YEAR FACTOIDS

Home Profile Admin ▾ Year Management ▾ Logout

List of Years

Year Number	Year Info	Sort	Order	Limit
Year Number	hellohihello	Year	+	10

Filter Clear

Your Year List

No records to show

Filter for text info "hellohihello" leads to no records, and it displays that message.

### Checklist Items (0)

Task #2 - Points: 1

Text: Screenshots of the list page code

Checklist			*The checkboxes are for your own tracking
#	Points	Details	
<input checked="" type="checkbox"/> #1	1	Show the filter/sort form generation	
<input checked="" type="checkbox"/> #2	1	Show the DB query and how the filter/sort is handled (including the restriction on the limit field)	

<input checked="" type="checkbox"/>	#3	1	Show how the output is generated and displayed
<input checked="" type="checkbox"/>	#4	1	Show any restrictions like role guard or login checks
<input checked="" type="checkbox"/>	#5	1	Include ucid/date comments for each code screenshot
<input checked="" type="checkbox"/>	#6	1	Clearly caption screenshots

## Task Screenshots:

### Gallery Style: Large View

Small      Medium      Large

```
//build search form bns24 04/14/24
$form = [
    ["type" => "number", "name" => "number", "placeholder" => "Year Number", "label" => "Year Number", "include_margin" => false],
    ["type" => "text", "name" => "text", "placeholder" => "Year Info", "label" => "Year Info", "include_margin" => false],
    ["type" => "select", "name" => "sort", "label" => "Sort", "options" => [{"year" => "Year", "text" => "Text"}], "include_margin" => false],
    ["type" => "select", "name" => "order", "label" => "Order", "options" => [{"asc" => "+", "desc" => "-"}], "include_margin" => false],
    ["type" => "number", "name" => "limit", "label" => "Limit", "value" => "10", "include_margin" => false],
];
<- #11-19 $form =
```

A form array that will be used in the next screenshot.

## Checklist Items (0)

```
$table = ["data"=>$results, "title" => "Your Year List", "ignored_columns" => ["id"], "edit_url"=>get_url("admin/edit_year.php"), "delete" =>
<div class = "container-fluid">
    <h3>List of Years</h3>
    <form method = "GET">
        <div class = "row mb-3" style = "align-items: flex-end;">
            <?php foreach($form as $k=>$v) : ?>
                <div class = "col">
                    <?php render_input($v);?>
                </div>
            <?php endforeach;?>
        </div>
        <?php render_button("text" => "Search", "type" => "submit", "text" => "Filter") : ?>
    </form>
```

```
<?php render_button([text => "Search", type => "submit", text => "Filter"], [a href = "?clear" class = "btn btn-secondary">Clear>?>
<?php render_table($table) ?>
</div>
```

The form being generated, going through the form array earlier as key value pairs, and rendering them each as inputs with the values being the type.

Checklist Items (0)



```
//bns24 04/14/24
$query = "SELECT id, text, year, type FROM `Numbers` WHERE 1=1";|
```

The initial query.

Checklist Items (0)



```
$yr = se($_GET, "number", "-1", false);
if(!empty($yr) && $yr > -1){
    $query .= " AND year like :year";
    $params[':year'] = "%$yr%";
}
$text = se($_GET, "text", "", false);
if(!empty($text)){
    $query .= " AND text like :text";
    $params[':text'] = "%$text%";
}

$sort = se($_GET, "sort", "year", false);
if (!in_array($sort, ["year", "text"])){
    $sort = "year";
}
$order = se($_GET, "order", "desc", false);
if (!in_array($order, ["asc", "desc"])){
    $order = "desc";
}
```

```

        $query .= " ORDER BY $sort $order";
    }

    try{
        $limit = (int)se($_GET, "limit", "10", false);
    }catch(Exception $e){
        $limit = 10;
    }

    if($limit < 1 || $limit > 100){
        $limit = 10;
    }

    $query .= " LIMIT $limit";
}

```

How the filter/sort is handled by adding on to the query. There is also a restriction on the limit field limiting it from between 1 and 100.

### Checklist Items (0)

```

$db = getDB(); //bns24 04/14/24
$stmt = $db->prepare($query);
$results = [];
try{
    $stmt->execute($params);
    $r = $stmt->fetchAll();
    if($r){
        $results = $r;
    }
} // - 897-105 try

catch(PDOException $e){
    error_log("Error fetching year " . var_export($e, true));
    flash("Unhandled error occurred", "danger");
}

$table = ["data"=>$results, "title" => "Your Year List", "ignored_columns" => ["id"], "edit_url"=>get_url("admin/edit_year.php"), "delete_url"=>get_url("admin/delete_year.php"), "view_url"=>get_url("admin/view_year.php")];


<h3>List of Years</h3>
    <form method="GET">
        <div class="row mb-3" style="align-items: flex-end">
            <?php foreach($form as $k=>$v) : ?>
                <div class="col">
                    <?php render_input($v);?>
                </div>
            <?php endforeach;?>
        </div>
        <?php render_button(["text" => "Search", "type" => "submit", "text" => "Filter"]); ?>
        <a href="?clear" class="btn btn-secondary">Clear</a>
        <?php render_table($table) ?>
    </div>


```

Once the query is finished, it executes it. We also make a new variable \$results as an array and set it to everything from the statement. We then create a table using the table from results, and it is displayed in the render\_table function.

### Checklist Items (0)

public\_html > project > admin > list\_years.php > ...

```

1  <?php
2  //note we need to go up 1 more directory bns24 04/14/24
3  require('..'. DS .'partials/nav.php');

```

```

3 require(__DIR__ . '/../../../../partials/nav.php');
4
5 if (!has_role("Admin")) {
6     flash("You don't have permission to view this page", "warning");
7     die(header("Location: $BASE_PATH" . "/home.php"));
8 }
9

```

Checks to see if user is admin.

Checklist Items (0)

### Task #3 - Points: 1

Text: Explain how the page works

#### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Provide the high-level steps of how the filter/sorting works and how data is displayed
<input checked="" type="checkbox"/> #2	1	Summarize what you're showing on the screen
<input checked="" type="checkbox"/> #3	1	Mention your design/style choice
<input checked="" type="checkbox"/> #4	1	Mention which users can interact with the view, edit, and delete links

Response:

We first check to see if user has admin before they are able to see the page. This is because for right now I want it so that only admin can see the database list, as well them being the only ones to view, edit, and delete the records. We build a search form using an array, which has the parameters, year number, text, sort by (year or number), and order (asc or desc), and a limit on how many records are visible. We make a form and go through the aforementioned array as key value pairs, rendering each thing using the render\_input function. It's also important to mention that we use a GET method for this form so that if we were to share this link with someone, the same filters would still apply. Once the search button is clicked the form goes through. It initializes a query which we build upon. We want to save the session in case we want to edit a specific record and then go back, so that all the filters are still in place. We then go through each of the parameters. If there was a year input, we add to the query to see if there is any data where the year is the same as the inputted year. The same goes for text. For sort, we simply get whatever data we got from the form, but we make a default value just in case. We then add the limit to it, and we have conditions for the limit, where it must be greater than 1 and less than 100, and if it is not, then we default it to 10. Finally once the query is done, we filter through the database and if everything was successful then we return the results. If not, then we flash a message saying an unhandled error occurred. Using the return result, we make a table using the render\_table with all the data gathered. We also add the edit, view, and delete links to the table, and add a title to it. I also chose to ignore the column id because I feel it wasn't super necessary for the user to see. Finally, it renders the table.

^COLLAPSE ^

## Task #4 - Points: 1

Text: Add related links

### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input type="checkbox"/> #1	1	Include the heroku prod link for this page
<input type="checkbox"/> #2	1	Add the pull request link for the branch related to this feature Note: the link should end with /#. Same pull request shouldn't be used for each feature

URL #1

[https://bns24-it202-008-prod-4d42e45e31d0.herokuapp.com/project/admin/list\\_years.php](https://bns24-it202-008-prod-4d42e45e31d0.herokuapp.com/project/admin/list_years.php)

URL #2

<https://github.com/BruceSiaNJIT/bns24-it202-008/pull/40>

View Details Page (single entity) (1 pt.)

^COLLAPSE ^

## Task #1 - Points: 1

Text: Screenshots of the details page

### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input type="checkbox"/> #1	1	Entity should be fetch by id (via the url)
<input type="checkbox"/> #2	1	A missing id should redirect back to the list page with an applicable message
<input type="checkbox"/> #3	1	Design/Style should be considered (i.e., bootstrap, custom css, etc)
<input type="checkbox"/> #4	1	Data shown should be more detailed/inclusive than the summary view
<input type="checkbox"/> #5	1	There should be a link to edit the entity (this may be an admin-only thing, but it should be present for the respective role)
<input type="checkbox"/> #6	1	There should be a link to delete the entity (this may be an admin-only thing, but it should be present for the respective role)
<input type="checkbox"/> #7	1	Make sure the heroku dev url is visible in the address bar
<input type="checkbox"/> #8	1	Clearly caption screenshots

Task Screenshots:

Gallery Style: Large View

Small

Medium

Large

A screenshot of a web browser window displaying a task details page. The URL in the address bar is "bns-it202-008-dev-12e4f32970b4.herokuapp.com/project/admin/view\_year.php?id=12". The page has a blue header bar with the text "YEAR FACTOIDS" and navigation links for "Home", "Profile", "Admin", "Year Management", and "Logout". Below the header is a teal footer bar with the text "Year: 2024".

Back

2024

Year: 2024

Text: Solar Eclipse happened at around 2pm

Type: year

Created: 2024-04-14 01:41:01

Modified: 2024-04-15 01:26:42

Edit

Delete

Single entity view, with the id in the url. Data is more detailed, showing the time it was created and the time it was last modified. There is a link to edit the entity and a link to delete the entity.

## Checklist Items (0)

The screenshot shows a web application interface for managing years. At the top, there's a header bar with links for Home, Profile, Admin, Year Management, and Logout. A red error message 'Invalid id passed' is displayed. Below the header is a search/filter section with fields for Year Number and Year Info, and dropdowns for Sort (Year), Order (+), and Limit (10). Buttons for Filter and Clear are present. The main content area is titled 'List of Years' and shows a table of historical events. The table has columns for text, year, type, and Actions (View, Edit, Delete). Events listed include the incorporation of Irving, Texas, the founding of Phi Beta Sigma Fraternity, Babe Ruth's debut, Russia's mobilization, and the election of Hosni Mubarak. A message at the bottom states 'Missing id redirects to the list page with an applicable message.'

text	year	type	Actions
the city of Irving, Texas is incorporated	1914	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
the Phi Beta Sigma Fraternity, Inc. is founded at Howard University in Washington, D.C	1914	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Baseball legend Babe Ruth makes his major league debut with the Red Sox	1914	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Russia orders full mobilization	1914	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Vice President Hosni Mubarak is elected President of Egypt 1 week after Anwar Sadat's assassination	1981	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>

## Checklist Items (0)

Task #2 - Points: 1

COLLAPSE

## Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Show how id is fetched
<input checked="" type="checkbox"/> #2	1	Show the DB query to get the record
<input checked="" type="checkbox"/> #3	1	Show the code related to presenting the data and showing the links
<input checked="" type="checkbox"/> #4	1	Include ucid/date comments for each code screenshot
<input checked="" type="checkbox"/> #5	1	Clearly caption screenshots

## Task Screenshots:

## Gallery Style: Large View

[Small](#)[Medium](#)[Large](#)

```

<?php
$id = se($_GET, "id", -1, false);

$yr = [];
if ($id > -1) {
    //fetch bns24 04/14/24
    $db = getDB();
    $query = "SELECT id, year, text, type, created, modified FROM `Numbers` WHERE id = :id";
    try {
        $stmt = $db->prepare($query);
        $stmt->execute([":id" => $id]);
        $r = $stmt->fetch();
        if ($r) {
            $yr = $r;
        }
    } catch (PDOException $e) {
        error_log("Error fetching record: " . var_export($e, true));
        flash("Error fetching record", "danger");
    }
} else {
    flash("Invalid id passed", "danger");
    die(header("Location:" . get_url("admin/list_years.php")));
}

```

ID is fetched through GET method. DB query is also shown.

## Checklist Items (0)

```

<!-- bns24 04/24/24 -->
<div class="card mx-auto" style="width: 18rem;">
    <div class="card-body">
        <h5 class="card-title"><?php se($yr, "year", "Unknown"); ?></h5>
        <ul class="list-group list-group-flush">
            <li class="list-group-item">Year: <?php se($yr, "year", "Unknown"); ?>
            <li class="list-group-item">Text: <?php se($yr, "text", "Unknown"); ?>
            <li class="list-group-item">Type: <?php se($yr, "type", "Unknown"); ?>
            <li class="list-group-item">Created: <?php se($yr, "created", "Unknown"); ?>
            <li class="list-group-item">Modified: <?php se($yr, "modified", "Unknown"); ?>
        </ul>
    </div>
</div>

```

```

<div class="card-text">
    <ul class="list-group">
        <li class="list-group-item">Year: <?php se($yr, "year", "Unknown"); ?></li>
        <li class="list-group-item">Text: <?php se($yr, "text", "Unknown"); ?></li>
        <li class="list-group-item">Type: <?php se($yr, "type", "Unknown"); ?></li>
        <li class="list-group-item">Created: <?php se($yr, "created", "Unknown"); ?></li>
        <li class="list-group-item">Modified: <?php se($yr, "modified", "Unknown"); ?></li>
    </ul>
</div>
<?php render_table($table) ?>
</div>
</div>

```

Data is displayed through the card class bootstrap. Using the db query which selects the data where the id matches the passed in id, it passes in the values from that record. A render table is used to present the edit and delete.

### Checklist Items (0)

#### Task #3 - Points: 1

**Text:** Explain how the page works

#### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Provide the high-level steps for handling the DB lookup and presenting the data

#### Response:

Page first checks to see if user has role admin. It uses the id value that was passed from clicking on the view button on the list page. So long as the id is above -1, we prepare the query, selecting the data that we need such as id, year, text, type, created, and modified where the id matches the id variable from before. If any of the values are null, then we give them the string value "N/A". If the fetch doesn't work or if an invalid ID is passed, we flash the respective user-friendly messages letting the user know. In the case of invalid id, we also redirect them back to the list page. I then use a similar method to the list page for displaying the edit and delete buttons on the view page. I make a table, pass in the data, and this time ignore basically all the columns except for the action column.

For loading the page itself, we use the data to print out each value, such as the year, the type, the text, modified, and created. We also render the previous table, which brings in the earlier buttons I mentioned.

#### Task #4 - Points: 1

**Text:** Add related links

#### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
---	--------	---------

<input type="checkbox"/> #1	1	Include the heroku prod link for this page
<input type="checkbox"/> #2	1	Add the pull request link for the branch related to this feature Note: the link should end with /#. Same pull request shouldn't be used for each feature

URL #1

[https://bns24-it202-008-prod-4d42e45e31d0.herokuapp.com/project/admin/view\\_year.php?id=1](https://bns24-it202-008-prod-4d42e45e31d0.herokuapp.com/project/admin/view_year.php?id=1)

URL #2

<https://github.com/BruceSiaNJIT/bns24-it202-008/pull/42>

● Edit Data Page (2 pts.)

▲COLLAPSE▲

● Task #1 - Points: 1

Text: Screenshots of the edit page

▲COLLAPSE▲

### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input type="checkbox"/> #1	1	Show before and after screenshots of data you'll edit
<input type="checkbox"/> #2	1	Show examples of validation messages
<input type="checkbox"/> #3	1	Show an example of successful edit messages
<input type="checkbox"/> #4	1	Design/Style should be considered (i.e., bootstrap, custom css, etc)
<input type="checkbox"/> #5	1	Make sure the heroku dev url is visible in the address bar
<input type="checkbox"/> #6	1	Clearly caption screenshots

Task Screenshots:

Gallery Style: Large View

Small      Medium      Large



This year does look cool

1778 year

View

Edit

Delete

## Before

Checklist Items (0)

YEAR FACTOIDS Home Profile Admin ▾ Year Management ▾ Logout

## Edit Year

Back

Year Number

Year Number

Year Info

This year does look cool

Type

year

Update

Please fill out this field.

## Validation

Checklist Items (0)

YEAR FACTOIDS Home Profile Admin ▾ Year Management ▾ Logout

Updated record

## Successful edit flash message

### Checklist Items (0)

Checklist Items (0)			
Baseball legend Babe Ruth makes his major league debut with the Red Sox	1914	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Russia orders full mobilization	1914	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Vice President Hosni Mubarak is elected President of Egypt 1 week after Anwar Sadat's assassination	1981	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Simón Bolívar and General José de San Martín meet in Guayaquil	1822	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
the second Kinsey Report, Sexual Behavior in the Human Female, is published in the US	1953	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
My mom's birthday year	1972	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Habib Bourguiba is elected prime minister of Tunisia	1956	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Papua New Guinea gains self government from Australia	1973	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Solar Eclipse happened at around 2pm	2024	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Tottenham Hotspur wins the Football League Cup final at Wembley, beating Norwich City 1-0	1973	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
This year does look cool!	1778	year	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>

Added an "!", after.

### Checklist Items (0)

#### Task #2 - Points: 1

Text: Screenshots of edit page code

### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Form should have correct data types for each property being requested
<input checked="" type="checkbox"/> #2	1	Form should have correct validation for each field (HTML, JS, and PHP)
<input checked="" type="checkbox"/> #3	1	Successful edit should have a user-friendly message
<input checked="" type="checkbox"/> #4	1	Any errors should have user-friendly messages
<input checked="" type="checkbox"/> #5	1	Include any other rules like role guards and login checks

<input checked="" type="checkbox"/> #6	1	Include ucid/date comments for each code screenshot
<input checked="" type="checkbox"/> #7	1	Clearly caption screenshots

## Task Screenshots:

### Gallery Style: Large View

Small

Medium

Large



```
if($yr){
    //bns24 04/14/24
    $form = [
        ["type" => "number", "name" => "number", "placeholder" => "Year Number", "label" => "Year Number", "rules" => ["required" => "required"]],
        ["type" => "text", "name" => "text", "placeholder" => "Year Info", "label" => "Year Info", "rules" => ["required" => "required"]],
        ["type" => "select", "name" => "type", "label" => "Type", "options" => ["year" => "year"], "rules" => ["required" => "required"]]
    ];
    #77-81 $form =
    $keys = array_keys($yr);
```

Form showing the correct datatypes requested.

## Checklist Items (0)



```
</php if ($label) : >
<?php /* label field bns24 04/14/24*/ ?>
<label class="form-label" for=<?php se($_id); ?>><?php se($label); ?>></label>
<?php endif; ?>

<?php if (!in_array($type, $_non_standard_types)) : ?>
<?php /* input field */ ?>
<input type=<?php se($type); ?> name=<?php se($name); ?>" class="form-control" id=<?php se($_id); ?>" value=<?php se($value); ?>" placeholder=<?php se($placeholder); ?>">
<?php echo $rules; ?>
<?php elseif($type === "textarea") : ?>
<textarea class="form-control" name=<?php se($name); ?>" id=<?php se($_id); ?>" placeholder=<?php se($placeholder); ?>"><?php echo $rules; ?><?php se($value); ?></textarea>
<?php elseif ($type === "select") : ?>
<select class="form-select" name=<?php se($name); ?>" value=<?php se($value); ?>" id=<?php se($_id); ?>">
    <?php foreach ($options as $k => $v) : ?>
        <option ><?php echo (isset($value) && $value === $k ? "selected" : "") ><?php se($k); ?>><?php se($v); ?></option>
    <?php endforeach; ?>
</select>
<?php endif; ?>
```

Validation for each input field because it uses render\_input.

Checklist Items (0)

```
$query .= " WHERE id = :id";
$params[":id"] = $id;
var_export($query);
error_log("Query: " . $query);
error_log("Params: ". var_export($params, true));
try{
    //bns24 04/14/24
    $stmt = $db->prepare($query);
    $stmt->execute($params);
    flash("Updated record", "success");
} catch(PDOException $e){
    error_log("Something went wrong.");
}
```

Successful update has a user friendly flash message.

Checklist Items (0)

```
public_html > project > admin > edit_year.php > ...
1  <?php
2  //note we need to go up 1 more directory
3  //bns24 04/14/24
4  require(__DIR__ . "/../../../../partials/nav.php");
5
6  if (!has_role("Admin")) {
7      flash("You don't have permission to view this page", "warning");
8      die(header("Location: $BASE_PATH" . "/home.php"));
9  }
10
```

## Role check for admin

## Checklist Items (0)

```

if($id > -1){
    //fetch
    $db = getDB();
    $query = "SELECT id, text, year, type FROM `Numbers` WHERE id = :id";
    try{
        $stmt = $db->prepare($query);
        $stmt->execute([":id"=>$id]);
        $r = $stmt->fetch();
        if($r){
            $yr = $r;
        }
    }catch(PDOException $e){
        error_log("Error fetching record: " . var_export($e, true));
        flash("Error fetching record.", "danger");
    }
}else{
    flash("Invalid id passed", "danger");
    die(header("Location: " . get_url("admin/list_years.php")));
}

```

User friendly flash message in case of errors.

## Checklist Items (0)

## Task #3 - Points: 1

Text: Screenshot of records from DB

## Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Show a before and after screenshot of the record
<input checked="" type="checkbox"/> #2	1	Note what differs
<input checked="" type="checkbox"/> #3	1	Clearly caption screenshots

Task Screenshots:

Gallery Style: Large View

Small

Medium

Large



<input type="checkbox"/>	> 11	12	Solar Eclipse happened at a	2024	year	2024-04-14 01:41:01	2024-04-15 01:26:42	0
--------------------------	------	----	-----------------------------	------	------	---------------------	---------------------	---

Before

#### Checklist Items (0)



<input type="checkbox"/>	> 11	12	Solar Eclipse, 2:00 P.M	2024	year	2024-04-14 01:41:01	2024-04-15 04:44:11	0
--------------------------	------	----	-------------------------	------	------	---------------------	---------------------	---

## Checklist Items (0)

## Task #4 - Points: 1

Text: Explain the process

## Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Provide a high-level step-by-step of how the fetching of the record, populating the form, and the update works and gets changed in your DB
<input checked="" type="checkbox"/> #2	1	Briefly describe the validations for the applicable fields

## Response:

We first check to see if the user has the admin role. We fetch the id and select all the data that is associated with that id, and put it in an array. If there is any error during this process, then we flash a user-friendly error message. If the array with the data exists, then we prepare a separate array to build the form. We make sure that each of the form parameters has the correct types for validations (text would be text, year would be number, and type would be a select). Then using the information from before, we populate the form with that data on page load, and then render each of the inputs. Next, We get the id from the get method where we prepare a query where we update the database. We take the result which comes from the POST method from the actual edit form. Because of the way the form works, I need to make sure that if the key is "number", I need to rename it to "year" so that it can actually work with my table. Using an empty array params, we are able to build the query so that it updates the data with the new information where the id matches the id that was given before. We then prepare the database for the query, and if everything works out, we flash a user-friendly success message and the database is updated, otherwise we do an error\_log saying what went wrong.

## Task #5 - Points: 1

Text: Add related links

## Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Include the heroku prod link for this page
<input checked="" type="checkbox"/> #2	1	Add the pull request link for the branch related to this feature Note: the link should end with /#. Same pull request shouldn't be used for each feature

## URL #1

[https://bns24-it202-008-prod-4d42e45e31d0.herokuapp.com/project/admin/edit\\_year.php?id=1](https://bns24-it202-008-prod-4d42e45e31d0.herokuapp.com/project/admin/edit_year.php?id=1)

## URL #2

<https://github.com/BruceSiaNJIT/bns24-it202-008/pull/40>

## Delete Handling (1 pt.)

^COLLAPSE ^



COLLAPSE

## Task #1 - Points: 1

**Text:** Screenshots related to delete

### Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input type="checkbox"/> #1	1	Show the success message of a delete
<input type="checkbox"/> #2	1	Show any error messages of a failed delete (like id not being passed)
<input type="checkbox"/> #3	1	Show the code related to the delete processing

### Task Screenshots:

#### Gallery Style: Large View

Small      Medium      Large

The screenshot shows a web browser window with a blue header bar. The URL in the address bar is `bns-it202-008-dev-12e4f32970b4.herokuapp.com/project/admin/list_years.php`. The page title is "YEAR FACTOIDS". The navigation menu includes "Home", "Profile", "Admin", "Year Management", and "Logout". A green banner at the top of the main content area says "Deleted Record with id: 24". Below the banner, the heading "List of Years" is visible. The main content area is currently empty, indicating no records are listed.

The screenshot shows a web browser window with a black header bar. The URL in the address bar is `bns-it202-008-dev-12e4f32970b4.herokuapp.com/project/admin/list_years.php`. The main content area displays the text "Success message for deleting a record". Below this text, the heading "Checklist Items (0)" is visible. A red trash can icon is located in the top right corner of the content area.

Invalid id passed to delete

## List of Years

Year Number	Year Info	Sort	Order	Limit
Year Number	Year Info	Year	+	10
<input type="button" value="Filter"/> <input type="button" value="Clear"/>				

Error message when an id is not passed

## Checklist Items (0)

```
public_html > project > admin > 🗑 delete_year.php > ...
1  <?php
2 | //bns24 04/14/24
3 | session_start();
4 | require(__DIR__ . "/../../../../lib/functions.php");
5 |
6 | if (!has_role("Admin")) {
7 |     flash("You don't have permission to view this page", "warning");
8 |     die(header("Location: $BASE_PATH" . "/home.php"));
9 | }
10
11 $id = se($_GET, "id", -1, false);
12 if($id < 1){
13     flash("Invalid id passed to delete", "danger");
14     die(header("Location: " . get_url("admin/list_years.php")));
15 }
16
17 $db = getDB();
18 $query = "DELETE FROM `Numbers` WHERE id = :id";
19 try{
20     $stmt = $db->prepare($query);
21     $stmt->execute([":id"=>$id]);
22     flash("Deleted Record with id: $id", "success");
23 }catch(Exception $e){
24     error_log("Error deleting stock $id" . var_export($e, true));
25     flash("Error deleting record", "danger");
26 }
27 die(header("Location: " . get_url("admin/list_years.php")));


```

Code related to the delete processing

## Checklist Items (0)

● Task #2 - Points: 1

^COLLAPSE^ Text: Screenshots of the data

## Checklist

\*The checkboxes are for your own tracking

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Show a before and after screenshot of the DB data
<input checked="" type="checkbox"/> #2	1	Note what changed (i.e., record removed or soft delete value changed)
<input checked="" type="checkbox"/> #3	1	Clearly caption screenshots

### Task Screenshots:

**Gallery Style: Large View**

Small      Medium      Large

SELECT \* FROM `Numbers` LIMIT 100

Search results Cost: 23ms Total 12

	id	text	year	type	created	modified	is_api	
>	3	4	Baseball legend Babe Ruth is born.	1914	year	2024-04-13 18:40:20	2024-04-14 03:49:02	1
>	4	5	Russia orders full mobilization.	1914	year	2024-04-13 21:23:36	2024-04-14 03:49:02	1
>	5	6	Vice President Hosni Mubarak.	1981	year	2024-04-13 21:31:00	2024-04-14 03:49:02	1
>	6	7	Simón Bolívar and General J.	1822	year	2024-04-13 21:31:33	2024-04-14 03:49:02	1
>	7	8	the second Kinsey Report, S.	1953	year	2024-04-13 21:43:15	2024-04-14 03:49:02	1
>	8	9	My mom's birthday year.	1972	year	2024-04-13 22:08:13	2024-04-14 01:39:04	0
>	9	10	Habib Bourguiba is elected.	1956	year	2024-04-13 22:10:35	2024-04-14 03:49:02	1
>	10	11	Papua New Guinea gains se.	1973	year	2024-04-14 01:40:33	2024-04-14 03:49:02	1
>	11	12	Solar Eclipse, 2:00 P.M.	2024	year	2024-04-14 01:41:01	2024-04-15 04:44:11	0
>	12	16	Tottenham Hotspur wins the	1973	year	2024-04-14 03:20:22	2024-04-14 03:49:02	1
>	13	26	My birthyear!	2005	year	2024-04-15 02:44:08	2024-04-15 02:44:08	0

**id 11 will be the one deleted BEFORE**

### Checklist Items (0)

SELECT \* FROM `Numbers` LIMIT 100

Search results Cost: 32ms Total 11

	id	text	year	type	created	modified	is_api	
>	2	2	the Phi Beta Sigma Fraternity.	1914	year	2024-04-13 18:39:19	2024-04-14 03:49:02	1
>	3	4	Baseball legend Babe Ruth is	1914	year	2024-04-13 18:40:20	2024-04-14 03:49:02	1
>	4	5	Russia orders full mobilizati	1914	year	2024-04-13 21:23:36	2024-04-14 03:49:02	1
>	5	6	Vice President Hosni Mubar	1981	year	2024-04-13 21:31:00	2024-04-14 03:49:02	1
>	6	7	Simón Bolívar and General J.	1822	year	2024-04-13 21:31:33	2024-04-14 03:49:02	1
>	7	8	the second Kinsey Report, S.	1953	year	2024-04-13 21:43:15	2024-04-14 03:49:02	1

> 8	9	My mom's birthday year	1972	year	2024-04-13 22:08:13	2024-04-14 01:39:04
> 9	10	Habib Bourguiba is elected	1956	year	2024-04-13 22:10:35	2024-04-14 03:49:02
> 10	12	Solar Eclipse, 2:00 P.M.	2024	year	2024-04-14 01:41:01	2024-04-15 04:44:11
> 11	16	Tottenham Hotspur wins the	1973	year	2024-04-14 03:20:22	2024-04-14 03:49:02
> 12	26	My birthyear!	2005	year	2024-04-15 02:44:08	2024-04-15 02:44:08

After, id 11 is deleted from the database

## Checklist Items (0)

### Task #3 - Points: 1

Text: Explain the delete logic

#### Checklist

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#	Points	Details
<input checked="" type="checkbox"/> #1	1	Is it a soft or hard delete
<input checked="" type="checkbox"/> #2	1	Are there any necessary roles or restrictions? (can only delete their data, can only be done by admin, etc)
<input checked="" type="checkbox"/> #3	1	Provide the high-level steps for handling the DB lookup and handling the delete

#### Response:

On both the edit page and the view single item page, there is a button for the delete. This passes in the id for delete\_year.php. It first checks to see if the user is an admin, then it checks to see if the id passed is valid. If it is not, a user friendly flash message will appear stating so, and it will redirect you back to the list page. If it passes, then it prepares the query where it deletes the data where the id matches the id that was passed previously. If everything works, it flashes a user-friendly flash message saying that it removed a record with that id. Otherwise, it flashes a user-friendly message stating that there was an error while deleting the record. This is a hard delete, and cannot be recovered once deleted.

### Task #4 - Points: 1

Text: Add the pull request link for the branch related to this feature

#### Details:

Note: the link should end with /pull/#. Same pull request shouldn't be used for each feature

#### URL #1

<https://github.com/BruceSiaNJIT/bns24-it202-008/pull/41>

Misc (1 pt.)

[^COLLAPSE ^](#)

### Task #1 - Points: 1

Text: Screenshot of your project board from GitHub (tasks should be in the proper column)

Task Screenshots:

Gallery Style: Large View

Small

Medium

Large

The screenshot shows a GitHub project board with the following structure:

- Todo:** This item hasn't been started.
- In Progress:** This is actively being worked on.
- Done:** This has been completed.
  - bns24-it202-008 #49 MS2-API Handling
  - bns24-it202-008 #48 MS2-Delete Handling
  - bns24-it202-008 #47 MS2-Edit Data Page
  - bns24-it202-008 #46 MS2-View Single Item
  - bns24-it202-008 #45

Screenshot of the Project board, everything in the right column

### Task #2 - Points: 1

Text: Provide a direct link to the project board on GitHub

URL #1

<https://github.com/users/BruceSiaNJIT/projects/1/views/1>

### Task #3 - Points: 1

Text: Talk about any issues or learnings during this assignment

Response:

This milestone I definitely learned a lot. This was kind of the first time I was really doing this on my own. Compared to Milestone 1, I mainly just copied pasted most of it. But for Milestone 2, because we all have our own unique API's, I couldn't simply just copy paste and I actually had to take what was being said in the videos and lectures and find a way to incorporate them for my specific API. It was very, very rewarding once I got certain parts to work.

Task #4 - Points: 1

Text: WakaTime Screenshot

 Details:

Grab a snippet showing the approximate time involved that clearly shows your repository. The duration isn't considered for grading, but there should be some time involved

Task Screenshots:

Gallery Style: Large View

Small

Medium

Large

# Projects

bns24-it202-008

13 hrs 48 mins

Screenshot of WakaTime

End of Assignment