MicroMac techno Valley Ltd.
Assessment of Standard Coding

1. Creation of Database

- Create a MySQL database, named it "inventory_db"
- Create following tables under database "inventory_db"

brand

Column Name	Data Type	Length
id	int	11
name	varchar	50
entry_date	datetime	

Note: id column will be Primary Key with auto increment.

models

Column Name	Data Type	Length
id	int	11
brand_id	Int	11
name	varchar	100
entry_date	datetime	

Note: id column will be Primary Key with auto increment.

items

Column Name	Data Type	Length
id	int	11
brand_id	int	11
model_id	int	11
name	varchar	255
entry_date	datetime	

Note: id column will be Primary Key with auto increment.

2. Creation of Project

Create a Project in CodeIgniter / Laravel.

There will be a web application which contacts a landing page with following 3 links (menu):

- Brand
- Model
- Item

2.1 Brand Menu

Clicking on Brand Menu following grid and button will be shown:

SL	Name	Entry Date	Action
1	Aarong	Mar 01, 2020	✏ 🗑
2	Yellow	Feb 29, 2020	✏ 🗑

Add Brand

Note:
- Last added brand will be shown first in the grid. That's mean data will be sorted by entry_date descending.
- Click on Add Brand button will open a popup page/modal to add data. Popup title "Add Brand"
- ✏ Icon will open a popup page/modal to edit data.
- 🗑 Icon will open an alert to delete data.

2.2 Add Brand Popup

The popup will show the following content:

Add Brand	
Fields marked with * are mandatory	
Brand Name *	[ ]
	Add

Following validations (by JavaScript) will be required for adding brand:
- Brand name is mandatory
- Duplicate brand name will not be allowed
- Maximum length is 50
- Brand name can only allow alphanumeric characters

Current Date time will be added to the entry_date column of brand table.

After successful addition of brand, a message (by alert) will be shown 'Brand has been added successfully'. The alert will contain only OK button. Click on OK button Add Brand Popup will be closed and redirect to Brand grid page.

2.3 Edit Brand Popup

We can come to this popup by clicking ✎ icon of Brand grid. Based on clicked edit icon respective brand name will be shown as follows:

Edit Brand
Fields marked with * are mandatory
Brand Name *   [Yellow]   **Update**

Following validations (by JavaScript) will be required for adding brand:

- Brand name is mandatory
- Duplicate brand name will not be allowed except brand name which we are going to edit.
- Maximum length is 50
- Brand name can only allow alphanumeric characters

After successful update of brand, a message (by alert) will be shown 'Brand has been updated successfully'. The alert will contain only OK button. Click on OK button Add Brand Popup will be closed and redirect to Brand grid page.

2.4 Delete Brand

After clicking 🗑 icon form the Brand grid, a confirmation box will be appeared with the message "Are You sure to delete the selected brand?"

Are You sure to delete the selected brand?
[OK] [Cancel]

If 'OK' is pressed then brand will be deleted. After successful delete of brand redirect to Brand gird page and deleted brand will be removed from grid.

2.5 Model Menu: Clicking on Model Menu following grid and button will be shown:

SL	Name	Brand Name	Entry Date	Action
1	M-2020	Yellow	25/02/2020	✎ 🗑
2	K-2019	Aarong	28/02/2020	✎ 🗑
3	M-2021	Cats Eye	01/03/2020	✎ 🗑

Add Model

Note:
- Last added model will be shown last in the grid. That's mean data will sorted by entry_date ascending.

- Click on Add Model button will open a popup page/modal to add data. Popup title "Add Model"
- ✎ icon will open a popup page/modal to edit data.
- 🗑 will open an alert to delete data.

2.6 Add Model Popup

The popup will show the following content:

Add Model	
Fields marked with * are mandatory	
Brand *	---- Select Brand --- ▼
Model Name *	
	Add

Note: List of brand will be loaded (by name ascending) in the Select Brand dropdown. Dropdown value will be "id" column of brand table and Dropdown Label will be "name" column of brand table.

Following validations (by JavaScript) will be required for adding model:

- Brand name is mandatory
- Model name is mandatory
- Duplicate model name of same brand will not be allowed
- Maximum length of Model Name is 100
- Model name can only allow alphanumeric characters

Current Date time will be added to the entry_date column of model table.

After successful addition of model, a message (by alert) will be shown 'Model has been added successfully'. The alert will contain only OK button. Click on OK button Add Model Popup will be closed and redirect to Model grid page.

2.7 Edit Model Popup

We can come to this popup by clicking ✎ icon of Model grid. Based on clicked edit icon respective model info will be shown as follows:

Edit Model	
Fields marked with * are mandatory	
Brand *	Yellow ▼
Model Name *	M-2020
	Update

Note: Respective brand name should be selected in the dropdown.

Following validations (by JavaScript) will be required for adding model:

- Brand name is mandatory
- Model name is mandatory
- Duplicate model name of same brand will not be allowed except model name which we are going to edit.
- Maximum length of Model Name is 100
- Model name can only allow alphanumeric characters

After successful addition of model, a message (by alert) will be shown 'Model has been updated successfully'. The alert will contain only OK button. Click on OK button Edit Model Popup will be closed and redirect to Model grid page.

2.8 Delete Model

After clicking 🗑 icon form the Model grid, a confirmation box will be appeared with the message "Are You sure to delete the selected model?"

Are You sure to delete the selected model?
OK   Cancel

If 'OK' is pressed then model will be deleted. After successful delete of model redirect to Model gird page and deleted model will be removed from grid.

2.9 Item Menu

Clicking on Item Menu following grid and button will be shown:

SL	Item	Model Name	Brand Name	Entry Date	Action
1	Pant 100	M-2020	Yellow	01-03-2020	🖉 🗑
2	Shirt 200	K-2019	Aarong	28-02-2020	🖉 🗑
3	T-Shirt 50	M-2021	Cats Eye	25-02-2020	🖉 🗑

Add Item

Note:
- Last added item will be shown first in the grid. That's mean data will sorted by entry_date descending.
- Click on Add Item button will open a popup page/modal to add data. Popup title "Add Item"
- 🖉 icon will open a popup page/modal to edit data.
- 🗑 will open an alert to delete data.

2.10 Add Item Popup

The popup will show the following content:

Add Item
Fields marked with * are mandatory -- Brand *   [---- Select Brand --- ↓] Model *   [---- Select Model --- ↓] Item Name *   [   ]   **Add**

Note: List of brand will be loaded (by name ascending) in the Select Brand dropdown. Dropdown value will be "id" column of brand table and Dropdown Label will be "name" column of brand table.

List of model will be loaded (by name ascending) in the Select Model dropdown. Dropdown value will be "id" column of model table and Dropdown Label will be "name" column of model table.

Following validations (by JavaScript) will be required for adding model:

- Brand name is mandatory
- Model name is mandatory
- Item Name is mandatory
- Duplicate item name of same brand and model will not be allowed
- Maximum length of Item Name is 255
- Item name can only allow alphanumeric characters

Current Date time will be added to the entry_date column of model table.

After successful addition of item, a message (by alert) will be shown 'Item has been added successfully'. The alert will contain only OK button. Click on OK button Add Item Popup will be closed and redirect to Item grid page.

2.11   Edit Item Popup

We can come to this popup by clicking ✎ icon of Item grid. Based on clicked edit icon respective item info will be shown as follows:

Edit Item
Fields marked with * are mandatory

Brand * | Yellow   ↓ |

Model Name * | M-2020   ↓ |

Item Name * | Pant 100 |

Update

Note: Respective brand and model name should be selected in the respective dropdown.

Following validations (by JavaScript) will be required for adding model:

- Brand name is mandatory
- Model name is mandatory
- Item Name is mandatory
- Duplicate item name of same brand and model will not be allowed except item name which we are going to edit.
- Maximum length of Item Name is 255
- Item name can only allow alphanumeric characters

After successful update of item, a message (by alert) will be shown 'Item has been updated successfully'. The alert will contain only OK button. Click on OK button Edit Item Popup will be closed and redirect to Item grid page.

2.12   Delete Item

After clicking 🗑 icon form the Item grid, a confirmation box will be appeared with the message "Are You sure to delete the selected item?"

Are You sure to delete the selected item?
OK   Cancel

If 'OK' is pressed then item will be deleted. After successful delete of item redirect to Item gird page and deleted item will be removed from grid.