Course Project Activity: System Sketch

In this activity you create a specification for your information system using the concepts of this course.

* For drawings, feel free to use any program or draw on paper and include photographs below.
* You do not need to do the same info type as you researched in the previous activity, but if you choose a new one, it will help you to find a couple of sites for the new type.

# Info Type

|  |  |
| --- | --- |
| What is your info type? | Motor Bikes |

## 1- Collect the attributes you found

For each of the sites you studied previously, fill in the attributes you found for your type

|  |  |
| --- | --- |
| **<type site 1 name here>** | **<type site 2 name here>** |
| 1. id 2. Model 3. Range 4. Max torque 5. Max Power 6. Top speed 7. Acceleration 8. Transmission 9. Front suspension 10. Rear suspension 11. Front brakes 12. Rear brakes 13. Front tire 14. Rear tire 15. Front wheel 16. Rear wheel 17. Wheelbase 18. Fuel economy 19. Price | 1. id 2. Variant 3. Engine type 4. Power 5. Torque 6. Fuel system 7. Fuel type 8. Brakes front 9. Brakes rear 10. 0-60(km/h) 11. Top speed(km/h) 12. Suspension-Front 13. Suspension-Rear9 14. Wheels Type (Pressed Steel 15. Wheelbase 16. Fuel Capacity 17. Kerb Weight 18. ABS 19. Average fuel economy |

## 2- “Best of” Tags

* Come up with at least 10 attributes for your info type. More is fine.
* Use the best of the attributes you found in the previous activity and/or decide on some of your own.
* Overall, make sure the attributes fully describe your type.
* Notice that you must include id, title/name and description as 3 of your attributes

Best of Tags

1. id
2. title
3. description
4. engineType
5. power
6. torque
7. topSpeed
8. acceleration
9. transmission
10. tyres
11. wheelBase
12. fuelEconomy

## 3- Attribute Specification

Turn your list of tag names into something that you can use to construct your first schema.

* Make sure all attribute names are in camelCase (<https://en.wikipedia.org/wiki/CamelCase> )
* A controlled vocabulary is a list of terms that the attribute value must match (<https://en.wikipedia.org/wiki/Controlled_vocabulary> ). Include at least one controlled vocabulary in your list of attributes.
* For data types, you need only use:
  + String for words, sentences and paragraphs
  + ID for ids
  + Boolean for true/false
  + String for controlled vocabularies
  + You can use other data types as you wish

|  |  |  |
| --- | --- | --- |
| **Attribute (use camelCase)** | **Data type** | **Controlled vocabulary values** |
| 1. id | ID |  |
| 1. title | String |  |
| 1. description | String |  |
| 1. engineType | String | V Twin, 4 stroke, 2 stroke. |
| 1. power | Decimal |  |
| 1. torque | Decimal |  |
| 1. topSpeed | Decimal |  |
| 1. acceleration | Decimal |  |
| 1. transmission | String | 5 speed, 6 speed |
| 1. tyres | String | Tubeless, tube |
| 1. wheelBase | String |  |
| 1. fuelEconomy | Decimal |  |

# Info Items

In the table below, list at least 13 items of the type you have chosen. You will not be held to these particular items later. The list is just to get you started

|  |  |
| --- | --- |
| **Items of type: <info type name here>** | |
| Id | Name/Title |
| 1 | Moto Guzzi V9 |
| 2 | Triumph Bonneville T100 |
| 3 | Tork T6X |
| 4 | Kawasaki Vulcan S |
| 5 | Honda CBR 300 |
| 6 | MV Agusta Brutale 800 |
| 7 | Ducati XDiavel |
| 8 | Yamaha FZ |
| 9 | Aprilia SR 150 |
| 10 | UM Motorcycles UM Renegade Sport |
| 11 | Triumph Thruxton R |
| 12 | Indian Scout Sixty |
| 13 | Yamaha RayZR |

# Org types

Decide upon at least one way items of your type can be organized in each of the following ways:

|  |  |
| --- | --- |
| **Org type** | **Org item** |
| Hierarchy |  |
| Index | Numerical index of bikes by id |
| Association | If you like this bike you might also like this bike |
| Sequence | Bikes by ride type |

# Page (Screen) structure:

## Full View Page

Create a sketch of the Web page layout you will create to hold full views of your information. Please include at least:

* A banner, local nav and content area.
* 1 sub area.
* Labels on each area that names them.

Banner

Content

Local Nav

Top bikes of this brand

## Home Page

Create a sketch of the Web home page layout for your site. Please include:

* A banner area
* Partial views of your info items.
* Labels

Banner

Content

Featured Bike

Featured Bike

Featured Bike

Featured Bike

Featured Bike

Featured Bike

# Matching information to the page:

Per the framework of this course, views are rendered into areas.

For each area identified in the illustrations above, please list the views that will render into it.

|  |  |
| --- | --- |
| **Area** | **Views that will render into it** |
| Banner | Static content only |
| Partial Views | Partial views of bikes |
| Content | All attributes of info type. This is a full view rendered in a partial space of the home page. |