**Bootstrap**:in order to develop a web site to look n feel inside we use bootstrap thing which is a front end framework used for developing responsive web pages.

**Why v use bootstrap**: v use bootstrap as a framework it is easy to approach if u have knowledge on css, html and JavaScript u can easily use bootstrap.

**Class loader** in bootstrap: class loader is a part of JRE, which loads the java classes into java virtual environment, and it function is to convert named classes into binary form.

**2-types of layouts**:

1)fluid layout: it is used for application with 100%wide and use up full width of screen.

2)fixed layout are used for standard screen.

**Bootstrap grid system**: for creating page layouts through series of rows and columns that house your content bootstrap grid system is used.

**Offset column**: for specialized layout we use offset column, for more spacing we used this to push column over.

**Column ordering**: is a part available in bootstrap can crested columns in one order and show in another one, with .col-md-push-\*, .col-md-pull-\*, the order can be easily changed.

**To wrap page** content we use .container

**Pagination i**s to handling the unordered list by bootstrap there are classes to handle pagination

1).pagination is to create a pagination on the page.

2).disable is for unclick able links and .active is for indicating current page.

3).pagination-lb and .pagination-sm is for size maintain.

(both css and less are powerful css extensions , both are compatible u can easily convert existed css file by converting.css to .sass and .less, less for JavaScript and sass for ruby)

**JUMBOTRON:** is used to highlight the content just like can enlarge the size and add margins: in div container will use .jumbotron class.

**Diff btwn bootstrap and foundation:**

1)in bootstrap there will b unlimited UI number of elements. 1)in foundation there will be limited UI ELEMENTS.

2)it uses pixels 2)it uses rems

3)it encourages to design both desktop and mobile apps 3)first mobile apps

4)supports LESS as its preprocessor 4)supports sass and compass as a preprocessor.

**2 ways to display codes:**

<code> is to display code line

<pre> is used to display multiple code lines.

**Vertical form**: add <form> element, add .form-group for spacing and add .form-control texture to input,

**Textarea and slect tags**

***Bootstrap container*** is used to create centred area within the page it is responsive and replace html code

**Bootstrap collapsing**: is used to collapse the element without writing the JavaScript code in order to apply collapse w have to add data-troggl=”collapse” to controller element along with data-target

**Collapse elements** are .collapse(hide) or (option) or (show).

**List group** is used to display both simple and complicated elements with content. It is crated using .list-group to the address list.

**Badge** is applied as a <spam class=”badge’>

**Media object** is used to place the object like images, video and audio, like adding class. media and the sourse is like .media-object.

2 types= 1).media 2)mesia-list

**Bootstrap well:** is a container<div> that makes the content to appear sunken and inset effective eon the page. I n order to crate well wrap the content that u would like to appear in the well with a <div> containing the class of .well

**Nav elememts** is used to create the styling elements in the page by using .nav and .nav-tabs

**Carousel is** used to add a slider to ur site it displays the large content in small small space: .carosaul(next), (option). (Numbers),( pre),(pause), (cycle).

Ruby:-

In ruby variables start with letter not number, character , underscore.

Variables are case sensitive

Method: methods are function both are same:

How to crate a method:

def my method //defining a method df as the opening curly brace

printf ‘sfjdndkg’ // it will print something

end //to end type end end is the closing braes

to run or call method type method name: my method

**mthod will have arguments and parameters:**

ex: def sayit(word)

print word

end

sayit(“fekki”)

to rverse the string**: string.reverse**

: ex:”hrllo”.reverse for lnth == **string.length**

To se the intial core methods that are available write: **“any string”.methods not only it givs the default but also u have created mthods are shown.**

**In order to sort 7.methds.sort**

**System(‘’cls’) to clear the screen**

**ARRAYS: mynumbers = [1,2,3] to get number ;; print mynmber[3], to sort: mynumber.sort**

**Hash w can import names with key values like: ex;**

**User = {‘firstname => ‘sdjf’, ‘lastname’ => ‘dsf’)**

**Print user[‘firsgtname’], user.size**

**Loops: 5.times do put ’sdfdsf’ end , 5.times {puts 'jdsajgdcuj' },**

**While: x=0**

**Limit = 7**

**While x < limit**

**Puts x**

**X += 1**

**End**

**OBJECTS AND CLASSES:**

**Class: havemethods and propertis**

**Ex: class Car**

**attr\_accessor :make, "model, :color**

**end now create object:**

**carl = car.new // car1 is th object**

**car1.make = ‘honds’**

**car1.model1 = ‘vdk’// we can create no. of objects.**

**Print car1.make**

**Methods for that class:**

**Class Car**

**Def drive**

**Print ‘driving’**

**End//end for function**

**End//end for class**

**Print car1.drive// to call method classname.method**

**Ex:inheritance**

**Class vehicle**

**Attr\_accessor :make, :model, :color // defining attributes**

**End**

**Class car < vhicle**

**Attr\_accessor :speed**

**End**

**Car1 = car.new// creating object**

**Car1.make = df’**

**Car1.color = ‘dfdfs’ // calling method**

**E**

**end**

**Print car1.make**

**RAILS: is an framework for building wb applications. Rails is…**

* **Open sourc**
* **Full stack**
* **Cross platform**
* **Data abstraction**
* **Object oriented**
* **Opinionated software**
* **Convention over configuration.**

**WORKDLOW:**

* **USE THE Rails command to create the basic skeleton of the applicant**
* **Create a db to hold ur data**
* **Congigure the application to know whwre ur database is located and the logic credentials for it.**
* **Create active record because the are the business onbjects u will be working with in ur controller.**
* **Generate migration that makes creating and managing the tables and columns**
* **Write controller code to put a life in ur application**
* **Create views to present ur data through user interface.**

1**)ruby names** refrs to classes, variables, methods and constants and modules used to create programs

This nameds distinguish other names used the specified rubynames and ruby refers to classes that are built and through which the objects are created.

2**)diff btwn symbol and string**:

The main difference in both will reflects in objctid, memoruy and processtime when both are in use

String is mutable so there will change only in assignments where synmbol will be overwritten.

String object will be written as “string objct jack”.object\_id#=>2250

3)**sessions: is** used to provide information about customes and servr side information

**Cookies** is used to store information with stored information on cliend and brwser

Session stores the user information and user actions, it will remains till the browser tillinformation is getting stored.

4) **request.xsl** is used to display controller which used to create ajax that is being handled by the new controller, it has Boolean values that r rturnde should generate only t/f

5)**mvc** provides flexibility and scalability used in many languages, controller is main part in this, which handles the request from other controller, and contacts views to provide response on behalf of request and also it contact to models, model will interact with database and provide rsponce to controller.

6)**components of mvc-**

Validation: it is essential component and used to validate to being put to intypes of streams like valida\_presence\_of, form-of

Relationship: it describes the relations brwn diff components and shows in form of has to one and has to many

Callback : it is used of respond when it is failure, it allows applicant to have some functionalities , before-save and aftersave.

Validation group settings: allows user to defin installed plugin settings

Activerecord association relationship: allows current record to active having relationship btwn 1 another.

7)ORM: is object relationship model, that models the classs and hlps in setting a relationship between

existed model, it helps hlp in mapping the classes with tables in database , objects with rows and object attributes with columns. It shows relationship betwn objects and frmaes, it uses the model to display output.it keeps th data in db according to its relationships and perform the function accordingly.