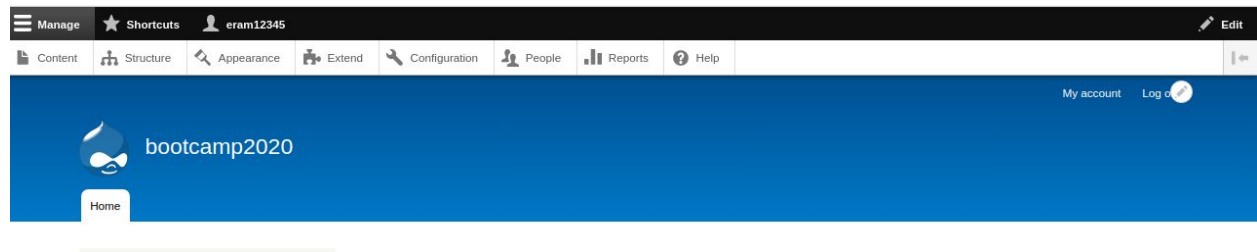1. Install a fresh drupal named as "Bootcamp2020"

2. Write down the name of bydefault field-types available in Drupal 8.

Drupal core provides a list of field types that can be used for base fields. Additionally, modules can provide additional field types that can be used too.

string: A simple string.

boolean: A boolean stored as an integer.

integer: An integer, with settings for min and max value validation (also provided for decimal and float)

decimal: A decimal with configurable precision and scale.

float: A float number

language: Contains a language code and the language as a computed property

timestamp: A Unix timestamp stored as an integer

created: A timestamp that uses the current time as a default value.

changed: A timestamp that is automatically updated to the current time if the entity is saved.

datetime: A date stored as an ISO 8601 string.

uri: Contains a URI. The link module also provides a link field type that can include a link title and can point to an internal or external URI/route.

uuid: A UUID field that generates a new UUID as the default value.

email: An email, with corresponding validation and widgets and formatters.

entity_reference: An entity reference with a target_id and a computed entity field property. entity_reference.module provides widgets and formatters when enabled.

map: Can contain any number of arbitrary properties, stored as a serialized string

3. Create a new Content Type named as "Book" with below fields -

Book Name (Text)

Description (Text - Formatted long)

Book Image (Image)

Book Price (Number - Integer)

Book Author (Text)

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Body	body	Text (formatted, long, with summary)	Edit ▾
Book Author	field_book_author	Text (plain)	Edit ▾
Book Image	field_book_image	Image	Edit ▾
Book name	field_book_name	Text (plain)	Edit ▾
Book Price	field_book_price	Number (integer)	Edit ▾
Description	field_description	Text (formatted, long)	Edit ▾

4. Arrange the fields in same order as above using "Manage Form Display".

FIELD	WIDGET	
Book name*	Textfield ▾	Textfield size: 60
Description*	Text area (multiple rows) ▾	Number of rows: 5
Book Image*	Image ▾	Preview image style: Thumbnail (100×100) Progress indicator: throbber
Book Price*	Number field ▾	No placeholder
Book Author*	Textfield ▾	Textfield size: 60

5. Create 1 node using above content type. Node should contain all fields value without label in same order as above.

Physics

View | Edit | Delete | Revisions

Physics (from Ancient Greek: φύσις (phúsis), romanized: physikḗ (epistḗmē), lit. 'knowledge of nature', from φύσις physis 'nature') is the natural science that studies matter, its motion and behavior through space and time, and the related entities of energy and force.
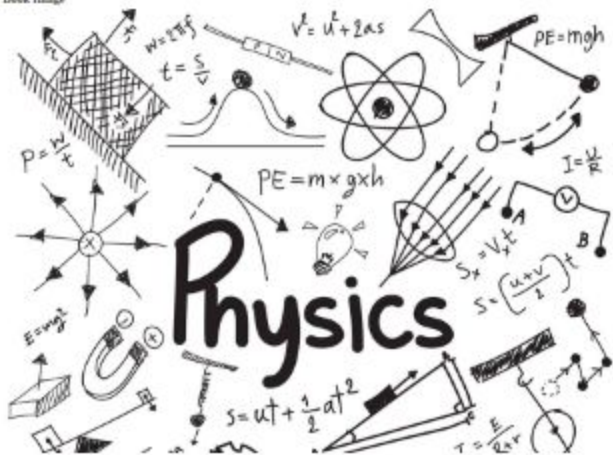
Book name

Physics

Description

Physics is the study of the natural world. It deals with the fundamental particles of which the universe is made, and the interactions between those particles, the objects composed of them (nuclei, atoms, molecules, etc) and energy. **Physics** is the science of Nature - of matter and energy in space and time.

Book Image

Book Price

430

Book Author

Richard Feynman

6. Download and Install Contrib Module "Admin Toolbar".

Regularly review and install available updates to maintain a secure and current site. Always run the update script each time a module is updated.

+ Install new module

admin t

Enter a part of the module name or description

▼ ADMINISTRATION

☑ **Admin Toolbar** ▸ Provides an improved drop-down menu interface to the site Toolbar.

☑ **Admin Toolbar Extra Tools** ▸ Adds menu links to the Admin Toolbar.

☑ **Admin Toolbar Links Access Filter** ▸ Provides a workaround for the common problem that users with 'Use the administration pages and help' permission see menu links they don't have access permission for. (

7. Download, Install and set as default Contrib Theme "Business".

Installed themes

Business 8.x-1.7 (default theme)
Business is a Responsive business Drupal 8 theme. Developed by Dropthemes.in.

Settings

8. Create a custom module with "/getnodes" path and a new Role, Display all published nodes title with their type and introduce a new permissions tag so that administrator and new role only can see that page.

Soln:- create a custome module let say Nodes

step 1 :- create a Nodes.info.yml file and write following code

name: Nodes

description: contains details of all nodes

package: Custom

type: module

core: 8.x

Step 2:- create a folder named src and add a subfolder Controller

step 3:- Inside container add Nodes.Controller.php file and add following code :-

```php
<?php

namespace Drupal\Nodes\Controller;

use Drupal\Core\Controller\ControllerBase;

class NodesController extends ControllerBase {

public function nodelist() {

$query = \Drupal::entityQuery('node')->condition('status', 1); //content type$nids = $query->execute();

$url = '<table>';

$url .= "<tr><td><b>" . "Node ID" . '</td><td><b>' . "Node Name". '</td></tr>';

foreach ($nids as $nid) {

$node = \Drupal\node\Entity\Node::load($nid);

$body = $node->body->value;

$title = $node->title->value;

$type =$node->type->value;

$url .= "<tr><td>" . $nid . '</td><td>' . $node->title->value . '</td></tr>';

}
```

```php
$url .= "</table>";

return [

'#markup' => $url,

];

}

}
```

Step 4 : come back to Nodes folder where Nodes.info.yml exists and create another file

named Nodes.routing.yml file and add following code:-

```yaml
Nodes.getnodes:

path: '/getnodes'

defaults:

_controller: 'Drupal\Nodes\Controller\NodesController::nodelist'

_title: 'Nodes list'

requirements:

_permission: 'access content'
```

Step 5 : open chrome and type localhost/Bootcamp2020/getnode

Nodes list

Node ID	Node Name
404 Error	test data
News Heading	We're the leading open-source CMS for ambitious digital experiences that reach your audience across multiple channels. Because we all have different needs, Drupal allows you to create a unique space in a world of cookie-cutter solutions.
news science	
Henry	
Basic Page	
news sport	
Physics	**Physics** (from Ancient Greek: φυσική (ἐπιστήμη), romanized: physikḗ (epistḗmē), lit. 'knowledge of nature', from φύσις phýsis 'nature') is the natural science that studies matter, its motion and behavior through space and time, and the related entities of energy and force.