

Assignment Custom Entity

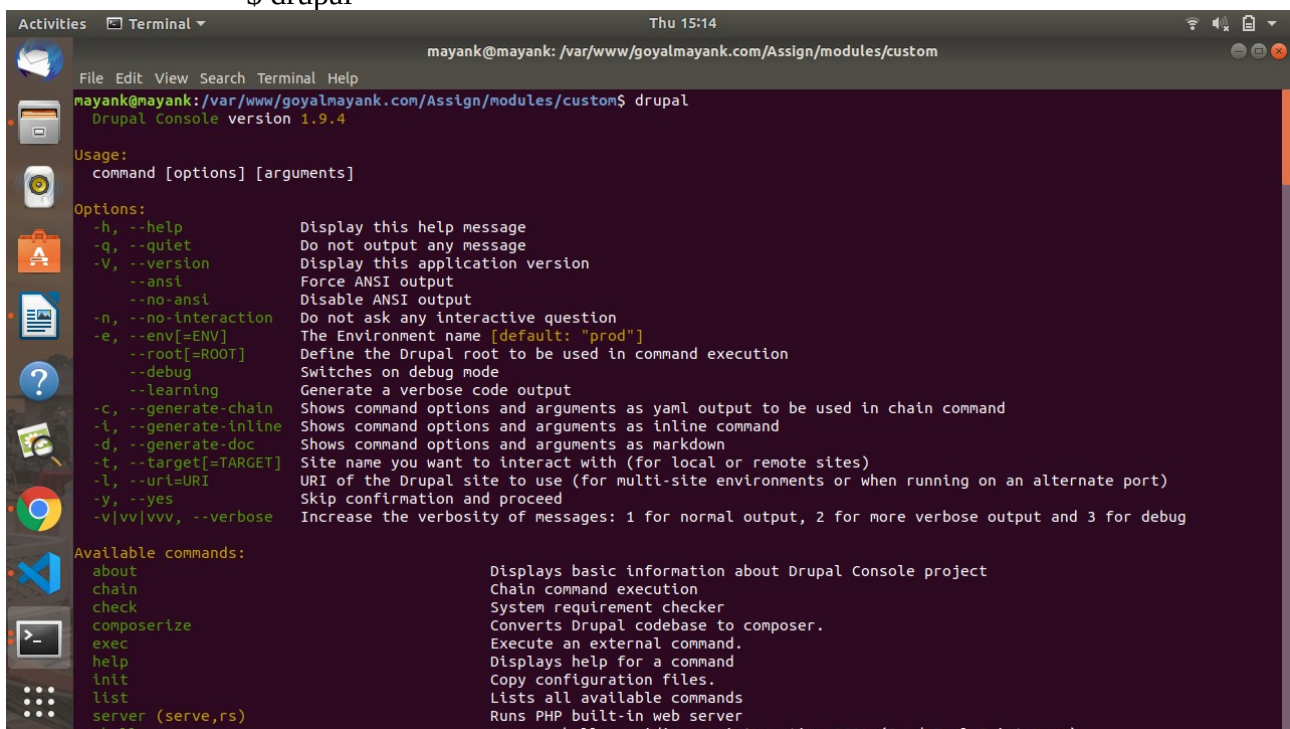
ques 1:- Q1. Create a Custom Entity having the following fields :

- Name
- Email
- Contact number

Soln :- step 1 : install a drupal console

step2 : - with help of terminal go to your drupal website and type the command

\$ drupal



```
mayank@mayank: /var/www/goyalmayank.com/Assign/modules/custom$ drupal
Drupal Console version 1.9.4

Usage:
  command [options] [arguments]

Options:
  -h, --help                Display this help message
  -q, --quiet               Do not output any message
  -V, --version             Display this application version
  --ansi                   Force ANSI output
  --no-ansi                Disable ANSI output
  -n, --no-interaction     Do not ask any interactive question
  -e, --env[=ENV]          The Environment name [default: "prod"]
  --root[=ROOT]            Define the Drupal root to be used in command execution
  --debug                  Switches on debug mode
  --learning               Generate a verbose code output
  -c, --generate-chain     Shows command options and arguments as yaml output to be used in chain command
  -i, --generate-inline    Shows command options and arguments as inline command
  -d, --generate-doc       Shows command options and arguments as markdown
  -t, --target[=TARGET]    Site name you want to interact with (for local or remote sites)
  -l, --uri=URI            URI of the Drupal site to use (for multi-site environments or when running on an alternate port)
  -y, --yes                Skip confirmation and proceed
  -v|vv|vvv, --verbose    Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for debug

Available commands:
  about                Displays basic information about Drupal Console project
  chain                Chain command execution
  check                System requirement checker
  composerize          Converts Drupal codebase to composer.
  exec                 Execute an external command.
  help                 Displays help for a command.
  init                 Copy configuration files.
  list                 Lists all available commands
  server (serve,rs)    Runs PHP built-in web server
  shell                Open a shell providing an interactive REPL (Read Eval Print Loop)
```

step 3: - create a custom module

use command \$ drupal gm

```
Activities Terminal Thu 15:15
mayank@mayank: /var/www/goyalmayank.com/Assign/modules/custom

File Edit View Search Terminal Help

mayank@mayank: /var/www/goyalmayank.com/Assign/modules/custom$ drupal gm

// Welcome to the Drupal module generator

Enter the new module name:
> ques1

Enter the module machine name [ques1]:
>

Enter the module Path [modules/custom]:
>

Enter module description [My Awesome Module]:
> assignment ques 1

Enter package name [Custom]:
>

Enter Drupal Core version [8.x]:
>

Do you want to generate a .module file? (yes/no) [yes]:
> no

Define module as feature (yes/no) [no]:
> no

Do you want to add a composer.json file to your module? (yes/no) [yes]:
> no

Would you like to add module dependencies? (yes/no) [no]:
> no

Do you want to generate a unit test class? (yes/no) [yes]:
```

```
Activities Terminal Thu 15:15
mayank@mayank: /var/www/goyalmayank.com/Assign/modules/custom

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>

Enter Drupal Core version [8.x]:
>

Do you want to generate a .module file? (yes/no) [yes]:
> no

Define module as feature (yes/no) [no]:
> no

Do you want to add a composer.json file to your module? (yes/no) [yes]:
> no

Would you like to add module dependencies? (yes/no) [no]:
> no

Do you want to generate a unit test class? (yes/no) [yes]:
> no

Do you want to generate a themeable template? (yes/no) [yes]:
> no

Do you want proceed with the operation? (yes/no) [yes]:
> yes

Generated or updated files
Generation path: /var/www/goyalmayank.com/Assign
1 - /modules/custom/ques1/ques1.info.yml

Generated lines: 5

mayank@mayank: /var/www/goyalmayank.com/Assign/modules/custom$
```

step 3:- create custom entity using command \$ drupal geco

```
Activities Terminal Thu 15:19
mayank@mayank: /var/www/goyalmayank.com/Assign/modules/custom

File Edit View Search Terminal Help
mayank@mayank:/var/www/goyalmayank.com/Assign/modules/custom$ drupal geco

// Welcome to the Drupal Content Entity generator
Enter the module name [Assignments]:
> ques1

Enter the class of your new content entity [DefaultEntity]:
> Ques1

Enter the machine name of your new content entity [ques1]:
>

Enter the label of your new content entity [Ques1]:
>

Enter the base-path for the content entity routes [/admin/structure]:
>

Do you want this (content) entity to have bundles? (yes/no) [no]:
>

Is your entity translatable? (yes/no) [yes]:
> no

Is your entity revisionable? (yes/no) [yes]:
> no

Do you want this (content) entity to have forms? (yes/no) [yes]:
> yes

Do you want this (content) entity to have an owner? (yes/no) [yes]:
> no

Generated or updated files
Generation path: /var/www/goyalmayank.com/Assign
1 - modules/custom/ques1/ques1.permissions.yml
```

```
Activities Terminal Thu 15:19
mayank@mayank: /var/www/goyalmayank.com/Assign/modules/custom

File Edit View Search Terminal Help
Is your entity translatable? (yes/no) [yes]:
> no

Is your entity revisionable? (yes/no) [yes]:
> no

Do you want this (content) entity to have forms? (yes/no) [yes]:
> yes

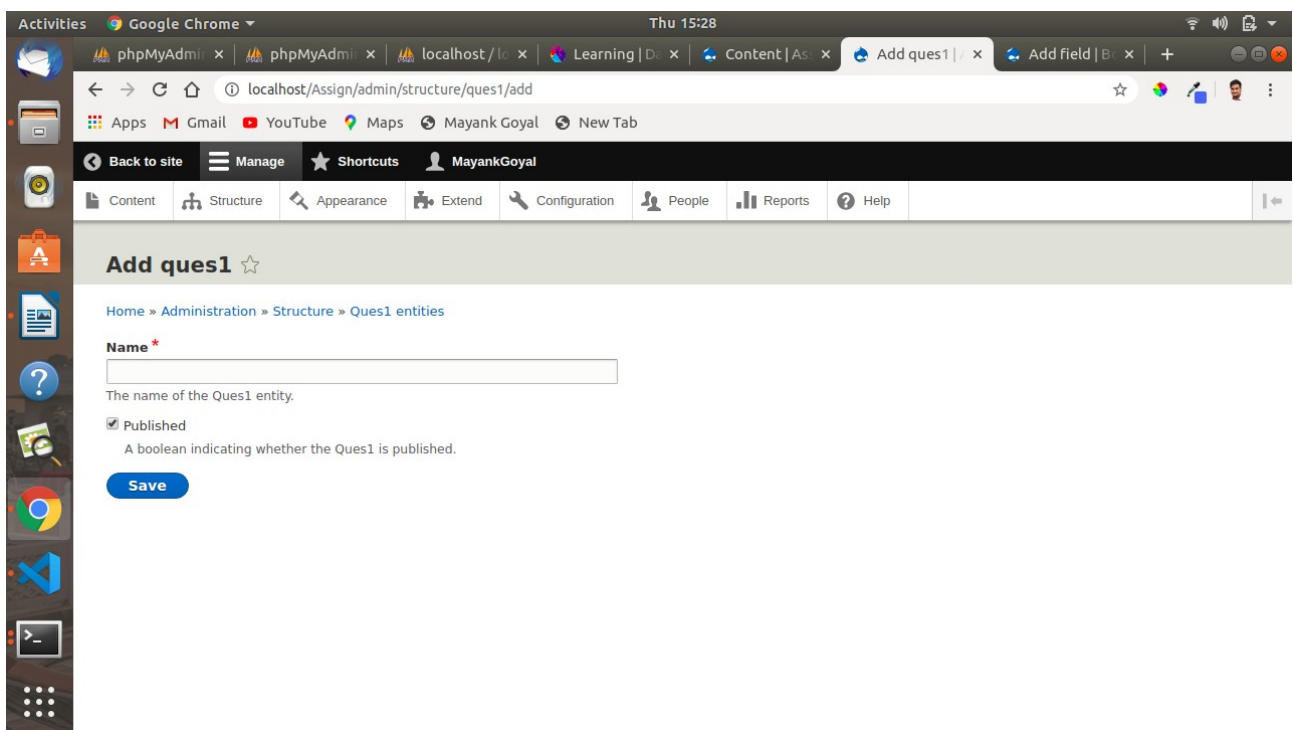
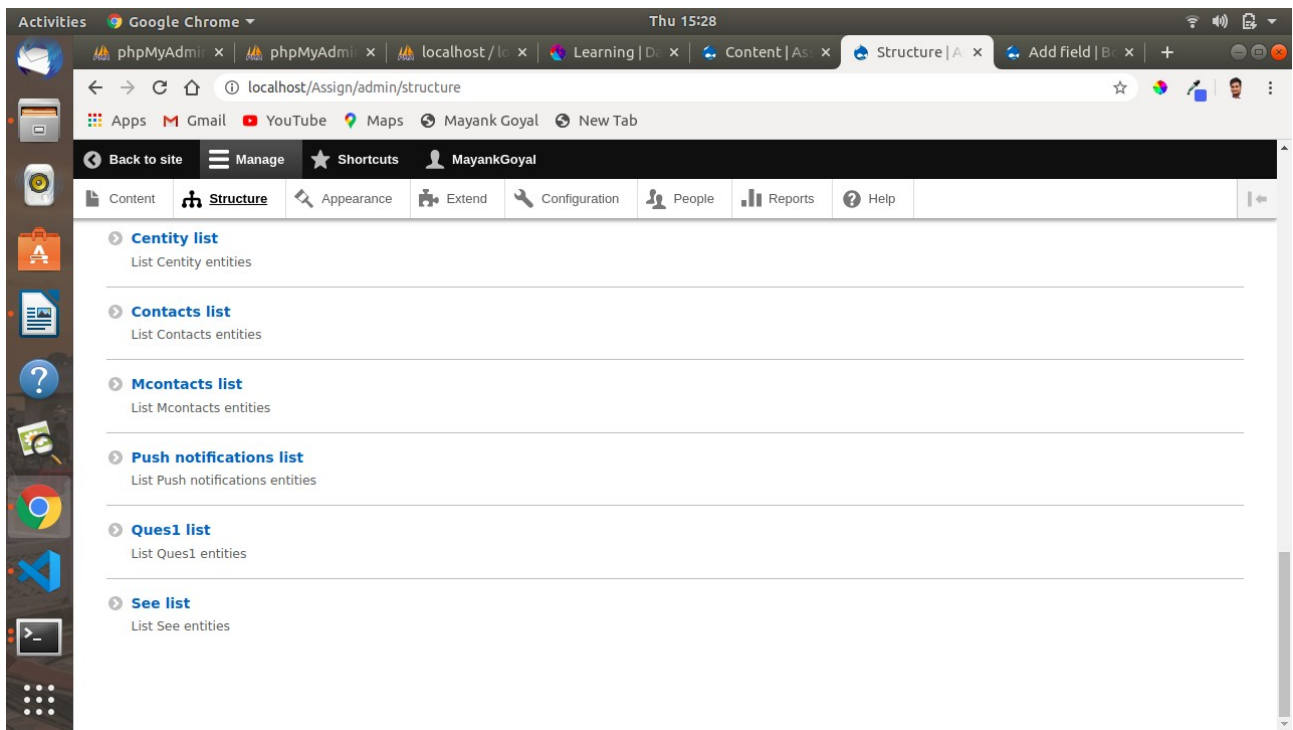
Do you want this (content) entity to have an owner? (yes/no) [yes]:
> no

Generated or updated files
Generation path: /var/www/goyalmayank.com/Assign
1 - modules/custom/ques1/ques1.permissions.yml
2 - modules/custom/ques1/src/Ques1AccessControlHandler.php
3 - modules/custom/ques1/src/Entity/Ques1Interface.php
4 - modules/custom/ques1/src/Entity/Ques1.php
5 - modules/custom/ques1/src/Entity/Ques1ViewsData.php
6 - modules/custom/ques1/src/Ques1ListBuilder.php
7 - modules/custom/ques1/src/Ques1HtmlRouteProvider.php
8 - modules/custom/ques1/ques1.links.menu.yml
9 - modules/custom/ques1/ques1.links.task.yml
10 - modules/custom/ques1/ques1.links.action.yml
11 - modules/custom/ques1/src/Form/Ques1SettingsForm.php
12 - modules/custom/ques1/src/Form/Ques1Form.php
13 - modules/custom/ques1/src/Form/Ques1DeleteForm.php
14 - modules/custom/ques1/templates/ques1.html.twig
15 - modules/custom/ques1/ques1.page.inc

Generated lines: 614

mayank@mayank:/var/www/goyalmayank.com/Assign/modules/custom$
```

now go to your website , install the module and clear the cache



To add the fields email and contact go to your module

goto src >> entity

now in the php file do the following changes :-

```
<?php
```

```
namespace Drupal\seecont\Entity;
```

```
use Drupal\Core\Field\BaseFieldDefinition;
use Drupal\Core\Entity\ContentEntityBase;
use Drupal\Core\Entity\EntityChangedTrait;
use Drupal\Core\Entity\EntityPublishedTrait;
use Drupal\Core\Entity\EntityTypeInterface;
```

```
/**
 * Defines the See entity.
 *
 * @ingroup seecont
 *
 * @ContentEntityType(
 *   id = "see",
 *   label = @Translation("See"),
 *   handlers = {
 *     "view_builder" = "Drupal\Core\Entity\EntityViewBuilder",
 *     "list_builder" = "Drupal\seecont\SeeListBuilder",
 *     "views_data" = "Drupal\seecont\Entity\SeeViewsData",
 *
 *     "form" = {
 *       "default" = "Drupal\seecont\Form\SeeForm",
 *       "add" = "Drupal\seecont\Form\SeeForm",
 *       "edit" = "Drupal\seecont\Form\SeeForm",
 *       "delete" = "Drupal\seecont\Form\SeeDeleteForm",
 *     },
 *     "route_provider" = {
 *       "html" = "Drupal\seecont\SeeHtmlRouteProvider",
 *     },
 *     "access" = "Drupal\seecont\SeeAccessControlHandler",
 *   },
 *   base_table = "see",
 *   translatable = FALSE,
 *   admin_permission = "administer see entities",
 *   entity_keys = {
 *     "id" = "id",
 *     "label" = "name",
 *     "uuid" = "uuid",
 *     "langcode" = "langcode",
 *     "published" = "status",
 *   },
 *   links = {
 *     "canonical" = "/admin/structure/see/{see}",
 *     "add-form" = "/admin/structure/see/add",
 *     "edit-form" = "/admin/structure/see/{see}/edit",
 *     "delete-form" = "/admin/structure/see/{see}/delete",
 *     "collection" = "/admin/structure/see",
 *   },

```

```

* field_ui_base_route = "see.settings"
* )
*/
class See extends ContentEntityBase implements SeeInterface {

    use EntityChangedTrait;
    use EntityPublishedTrait;

    /**
     * {@inheritdoc}
     */
    public function getName() {
        return $this->get('name')->value;
    }

    /**
     * {@inheritdoc}
     */
    public function setName($name) {
        $this->set('name', $name);
        return $this;
    }

    /**
     * {@inheritdoc}
     */
    public function getCreatedTime() {
        return $this->get('created')->value;
    }

    /**
     * {@inheritdoc}
     */
    public function setCreatedTime($timestamp) {
        $this->set('created', $timestamp);
        return $this;
    }

    /**
     * {@inheritdoc}
     */
    public static function baseFieldDefinitions(EntityTypeInterface $entity_type) {
        $fields = parent::baseFieldDefinitions($entity_type);

        // Add the published field.
        $fields += static::publishedBaseFieldDefinitions($entity_type);
        // name entry starts
        $fields['name'] = BaseFieldDefinition::create('string')
            ->setLabel(t('Name'))
            ->setDescription(t('The name of the See entity.))
            ->setSettings([
                'max_length' => 50,

```

```

    'text_processing' => 0,
  ])
->setDefaultValue("")
->setDisplayOptions('view', [
  'label' => 'above',
  'type' => 'string',
  'weight' => -4,
])
->setDisplayOptions('form', [
  'type' => 'string_textfield',
  'weight' => -4,
])
->setDisplayConfigurable('form', TRUE)
->setDisplayConfigurable('view', TRUE)
->setRequired(TRUE);
// entering email

$fields['Email'] = BaseFieldDefinition::create('string')
->setLabel(t('email'))
->setDescription(t('The e-mail of the See entity.'))
->setSettings([
  'max_length' => 50,
  'text_processing' => 0,
])
->setDefaultValue("")
->setDisplayOptions('view', [
  'label' => 'above',
  'type' => 'string',
  'weight' => -4,
])
->setDisplayOptions('form', [
  'type' => 'string_textfield',
  'weight' => -4,
])
->setDisplayConfigurable('form', TRUE)
->setDisplayConfigurable('view', TRUE)
->setRequired(TRUE);
// contact
$fields['contact'] = BaseFieldDefinition::create('integer')
->setLabel(t('contact'))
->setDescription(t('The contact of the See entity.'))
->setSettings([
  'max_length' => 10,
  'text_processing' => 0,
])
->setDefaultValue("")
->setDisplayOptions('view', [
  'label' => 'above',
  'type' => 'integer',
  'weight' => -4,
])
->setDisplayOptions('form', [

```



```

    'type' => 'string_textfield',
    'weight' => -4,
  ])
  ->setDisplayConfigurable('form', TRUE)
  ->setDisplayConfigurable('view', TRUE)
  ->setRequired(TRUE);

$fields['status']->setDescription(t('A boolean indicating whether the See is published.'))
  ->setDisplayOptions('form', [
    'type' => 'boolean_checkbox',
    'weight' => -3,
  ]);

$fields['created'] = BaseFieldDefinition::create('created')
  ->setLabel(t('Created'))
  ->setDescription(t('The time that the entity was created.'));

$fields['changed'] = BaseFieldDefinition::create('changed')
  ->setLabel(t('Changed'))
  ->setDescription(t('The time that the entity was last edited.'));

return $fields;
}

}

```

now go to your website , clear cache and check the form :-

☐ Show all

Number of rows:

25

Filter rows:

Search this table

+ Options

</

Ques 2 :- Create a Config Entity to store diff time slots for customers.

Soln:-

step 1:- run the following command

```
$ drupal gec
```



```
Activities Terminal Thu 15:45
mayank@mayank: /var/www/goyalmayank.com/Assign/modules/custom

File Edit View Search Terminal Help
mayank@mayank: /var/www/goyalmayank.com/Assign/modules/custom$ drupal gec

// Welcome to the Drupal Config Entity generator
Enter the module name [Assignments]:
> seecont

Enter the class of your new config entity [DefaultEntity]:
> detailcustomer

Enter the name of your new config entity [detailcustomer]:
>

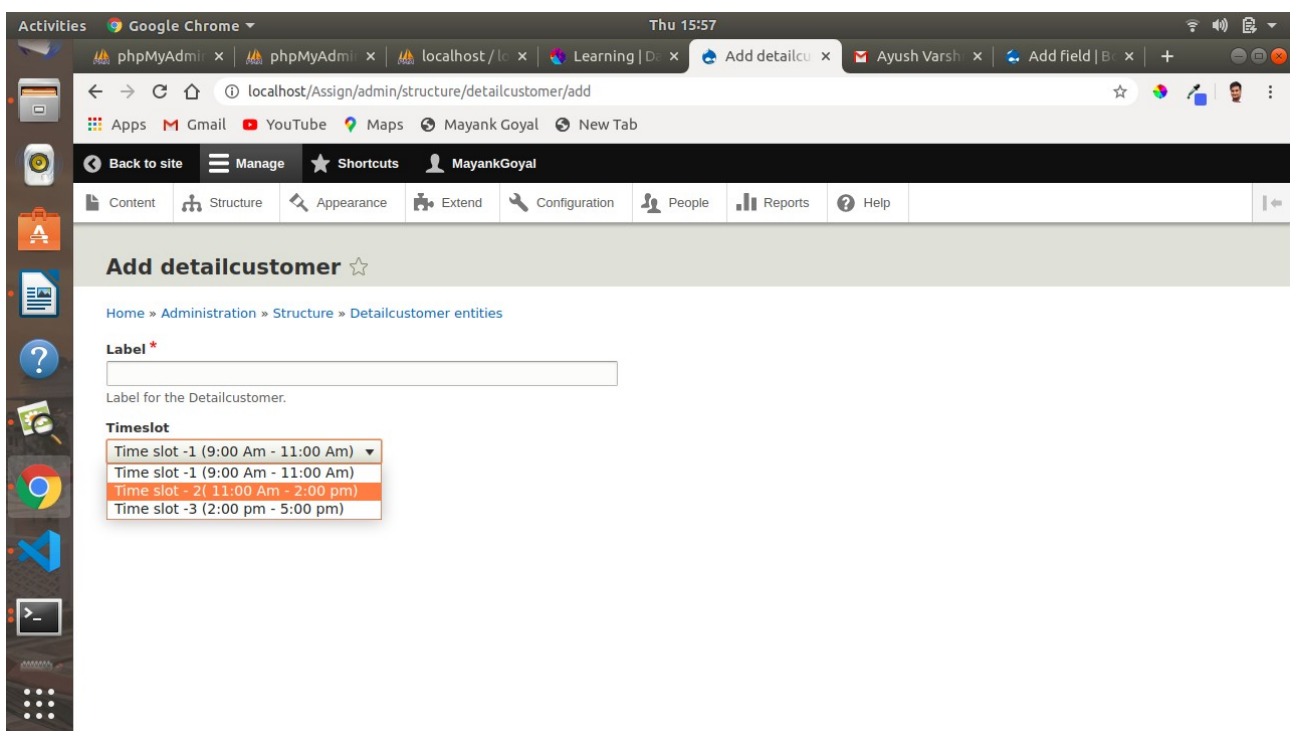
Enter the label of your new config entity [Detailcustomer]:
>

Enter the base-path for the config entity routes [/admin/structure]:
>

Generated or updated files
Generation path: /var/www/goyalmayank.com/Assign
1 - modules/custom/seecont/config/schema/detailcustomer.schema.yml
2 - modules/custom/seecont/seecont.links.menu.yml
3 - modules/custom/seecont/seecont.links.action.yml
4 - modules/custom/seecont/src/Entity/detailcustomerInterface.php
5 - modules/custom/seecont/src/Entity/detailcustomer.php
6 - modules/custom/seecont/src/detailcustomerHtmlRouteProvider.php
7 - modules/custom/seecont/src/Form/detailcustomerForm.php
8 - modules/custom/seecont/src/Form/detailcustomerDeleteForm.php
9 - modules/custom/seecont/src/detailcustomerListBuilder.php

Generated lines: 269

mayank@mayank: /var/www/goyalmayank.com/Assign/modules/custom$
```



step 2:- go to module >> custom >> your module name >> src

step3 :- Open form folder and inside detailcustomerForm.php do the following changes :-

```
<?php
```

```
namespace Drupal\seecont\Form;
```

```
use Drupal\Core\Entity\EntityForm;
```

```
use Drupal\Core\Form\FormStateInterface;
```

```
/**
```

```
 * Class detailcustomerForm.
```

```

*/
class detailcustomerForm extends EntityForm {

  /**
   * {@inheritdoc}
   */
  public function form(array $form, FormStateInterface $form_state) {
    $form = parent::form($form, $form_state);

    $detailcustomer = $this->entity;
    $form['label'] = [
      '#type' => 'textfield',
      '#title' => $this->t('Label'),
      '#maxlength' => 255,
      '#default_value' => $detailcustomer->label(),
      '#description' => $this->t("Label for the Detailcustomer."),
      '#required' => TRUE,
    ];

    $form['id'] = [
      '#type' => 'machine_name',
      '#default_value' => $detailcustomer->id(),
      '#machine_name' => [
        'exists' => '\Drupal\seecont\Entity\detailcustomer::load',
      ],
      '#disabled' => !$detailcustomer->isNew(),
    ];
    $form['timeslot'] = [
      '#type' => 'select',
      '#options'=>[1=>'Time slot -1 (9:00 Am - 11:00 Am)',2=>'Time slot - 2( 11:00 Am - 2:00 pm)',3=>'Time slot -3 (2:00 pm - 5:00 pm)' ],
      '#title' => 'Timeslot',
      // '#default_value' => $detailcustomer->timeslot(),
      // '#machine_name' => [
      //   'exists' => '\Drupal\seecont\Entity\detailcustomer::load',
      // ],
      // '#disabled' => !$detailcustomer->isNew(),
    ];

    /* You will need additional form elements for your custom properties. */

    return $form;
  }

  /**
   * {@inheritdoc}
   */
  public function save(array $form, FormStateInterface $form_state) {
    $detailcustomer = $this->entity;
    $status = $detailcustomer->save();

    switch ($status) {
      case SAVED_NEW:
        $this->messenger()->addMessage($this->t('Created the %label Detailcustomer.', [
          '%label' => $detailcustomer->label(),
        ]));
        break;

      default:
    }
  }
}

```

```

    $this->messenger()->addMessage($this->t('Saved the %label Detailcustomer.', [
        '%label' => $detailcustomer->label(),
    ]));
}
$form_state->setRedirectUrl($detailcustomer->toUrl('collection'));
}
}

```

Step :- now go to config >> schema

Step2: in file schema.yml do the following changes:-

```

seecont.detailcustomer.*:
  type: config_entity
  label: 'Detailcustomer config'
  mapping:
    id:
      type: string
      label: 'ID'
    label:
      type: label
      label: 'Label'
    uuid:
      type: string
    timeslot:
      type: string
      label: 'Timeslot'

```

