**Technical Document of OSP Fiber**

**Technologies:**

* Backend – Python
* Frontend – Html, Css, JS, Jquery, Ajax
* Database – Postgres
* Framework – Django

**Flow of Django:**

1. User hit URL and make request from Django server.
2. First manage.py file run and then settings.py file execute where we define our database settings, app names, root URL path, template directory path, static folder path, media folder path and emails settings.
3. Then it goes to root URL file which is in our project file.
4. Then it goes to relevant views function.
5. Then it goes to model.py files where we declare our Database Schema.
6. Then it renders to template with our fetched data from database.
7. Finally user get their relevant data from their request.

**Tables Creation:**

* bill\models.py
  + Bill
* activity\models.py
  + Bay\_roles
  + Bay\_users
  + Fe\_users
  + Clients
  + Activities
  + Activity
  + Activity\_media
  + Mail\_settings
  + Logins
  + Subtasks
  + Task\_status
  + Activity\_tasks
  + Task\_media
  + Task\_remark
  + Task\_detail
  + Page\_role

**All Pages**

1. login
2. reset\_password
3. activity\_list
4. create\_activity
5. activities
6. task\_details
7. view\_activity
8. media\_list
9. fe\_users
10. billview
11. create\_bill
12. dashboard
13. dashboard1
14. activity\_calendar

* **login**

This page is user for user authentication.

Tables required:

* + bay\_roles
  + bay\_users

Pages required:

* + activity\views\login.py
  + templates\login.html
* **reset\_password**

This page is use for reset user password by a mail.

Tables required:

* + mail\_settings
  + bay\_users

Pages required:

* + activity\views\ reset\_password.py
  + templates\ reset\_password.html
* **create\_activity**

This page is for saving all data of create\_ activity page to activity table and also in bill table.

Tables required:

* + mail\_settings
  + clients
  + bay\_users
  + activity
  + page\_role
  + activities
  + bay\_roles
  + bill

Pages required:

* + activity\views\ import\_data.py
  + activity\views\ page\_permission.py
  + activity\views\ create\_activity.py
  + templates\ base.html
  + templates\ create\_activity.html
* **activity\_list**

This page is use for giving list of all activities which is created by created\_activity.

Tables required:

* + clients
  + bay\_users
  + activity
  + page\_role

Pages required:

* + activity\views\ import\_data.py
  + activity\views\ page\_permission.py
  + activity\views\ activity\_list.py
  + activity\views\ csv\_activity\_list.py
  + activity\views\ ajax.py (activity\_delete)
  + activity\templatetags\myfilter.py (qc\_count)
  + templates\ base.html
  + templates\ activity\_list.html
* **activities**

This page is use for saving subtask of different activities and also save the status, start date, complete date, assigned to/done by, comments and attachments of subtasks.

Tables required:

* + activity\_tasks
  + activity
  + bay\_users
  + subtasks
  + page\_role
  + task\_detail
  + task\_remark
  + task\_media

Pages required:

* + activity\views\ import\_data.py
  + activity\views\ page\_permission.py
  + activity\views\ activities.py
  + activity\views\ ajax.py (subtask\_update, attachment\_fetch, remark\_fetch)
  + templates \ ajax.html (media, remark)
  + activity\templatetags\myfilter.py (count\_remark , count\_media, tostr, mysplit)
  + templates\ base.html
  + templates\ page\_title\_right.html
  + templates\ activities.html
* **task\_details**

This page is use for saving activity(for ex – Fielding, Planning, Drafting) status and also save the engineers and doers of the current activity.

Tables required:

* + mail\_settings
  + task\_detail
  + bay\_users
  + bay\_roles
  + task\_status
  + activity\_tasks
  + task\_media
  + task\_remark
  + activity
  + page\_role

Pages required:

* + activity\views\ import\_data.py
  + activity\views\ page\_permission.py
  + activity\views\ task\_details.py
  + activity\forms.py (TaskForm, TaskmediaForm, TaskcommentForm)
  + activity\views\ ajax.py (task\_media\_delete)
  + activity\templatetags\myfilter.py (tostr, mysplit)
  + templates\ base.html
  + templates\ page\_title\_right.html
  + templates\ task\_details.html
* **view\_activity**

This page is use for showing all data of a activity which is saved from create\_activity page.

Tables required:

* + bay\_users
  + activity
  + page\_role

Pages required:

* + activity\views\ import\_data.py
  + activity\views\ page\_permission.py
  + activity\views\ view\_activity.py
  + templates\ base.html
  + templates\ view\_activity.html
  + activity\templatetags\myfilter.py (market)
* **media\_list**

This page is use for saving media of a activity and also showing saved media files of the activity.

Tables required:

* + bay\_users
  + activity
  + activity\_media
  + page\_role

Pages required:

* + activity\views\ import\_data.py
  + activity\views\ page\_permission.py
  + activity\views\ media\_list.py
  + activity\views \ ajax.py (media\_delete)
  + templates\ base.html
  + templates\ media\_list.html
  + activity\templatetags\myfilter.py (toStr, mysplit)
* **fe\_users**

This page is use for saving, editing, showing list of feusers and also change password and active\inactive of feusers.

Tables required:

* + bay\_users
  + bay\_ roles
  + mail\_settings
  + page\_role

Pages required:

* + activity\views \ import\_data.py
  + activity\views \ page\_permission.py
  + activity\views\ view\_activity.py
  + activity\views\ ajax.py (fe\_change\_password, feuser\_status\_change, fielder\_delete)
  + templates\ base.html
  + templates\ fe\_users.html
* **billview**

This page is use for showing data of bill table and activity table together and from this page we can edit bill table data.

Tables required:

* + clients
  + bill
  + bay\_users
  + page\_role

Pages required:

* + activity\views\ page\_permission.py
  + bill\views.py (billview)
  + activity\templatetags\myfilter.py (market, job\_status, bucket, invoicing\_status)
  + templates\ base.html
  + templates\ billview.html
* **create\_bill**

This page is use for update bill table data.

Tables required:

* + activity
  + bill
  + bay\_users
  + page\_role

Pages required:

* + activity\views\ page\_permission.py
  + bill\views.py (create\_bill)
  + bill\forms.py (BillForm)
  + activity\templatetags\myfilter.py (market\_list, invoicing\_status\_list, bucket\_list, job\_status\_list)
  + templates\ base.html
  + templates\ create\_bill.html
* **dashboard**

Tables required:

* + activity
  + activity\_tasks
  + bay\_users
  + bay\_ roles
  + page\_role

Pages required:

* + activity\views\ page\_permission.py
  + activity \views\dashboard.py (dashboard)
  + templates\ base.html
  + templates\ dashboard.html
* **dashboard1**

This page shows activity type count in the selected month and show client job in this year.

Tables required:

* + activity
  + clients
  + bay\_users
  + page\_role

Pages required:

* + activity\views\ page\_permission.py
  + activity \views\dashboard.py (dashboard1)
  + templates\ base.html
  + templates\ dashboard1.html
* **activity\_calendar**

This page shows create activity date.

Table required – activity

Tables required:

* + activity
  + bay\_users
  + page\_role

Pages required:

* + activity\views\ page\_permission.py
  + activity \views\dashboard.py (dashboard1)
  + templates\ base.html
  + templates\ activity\_calendar.html