PROJECT DEVELOPMENT PHASE

SPRINT 4 CODING

Date	03 November 2022
Team ID	PNT2022TMID09610
Project Name	ESTIMATION OF CROP YIELD USING DATA ANALYTICS

Registration Form

Name	
Email	
Password	

Login Form

Email	
Password	
	Register

DATABASE CONNECTIVITY: CODING CSS COMPONENT

```
mat-card {
  max-width: 600px;
  margin: 2em auto;
  text-align: center;
  max-height: 600px;
}
.header{
  text-align: center;
```

```
.full-width {
 width: 80%;
.button-row {
padding-top: 5px;
.button-row a {
 margin-right: 8px;
 text-align: center;
.forget-password{
 padding-left: 0px;
.emailInput{
 padding-top: 10px;
.contentBody {
 padding: 60px 1rem;
 background:#006064;
 display: block;
.aLink{
 float: right;
 padding-right: 60px;
 text-decoration: none;
```

HTML COMPONENT:

```
placeholder="Enter email address" required
            <mat-error *ngIf="!loginForm.controls['email'].valid">
                Email is required
              </mat-error>
          </mat-form-field>
        </div>
        <div>
            <a class="text-link" class="aLink" routerLink="/auth/forgot-</pre>
password">Forgot Password?</a>
          </span>
          <mat-form-field class="full-width" appearance="outline">
            <mat-label>Password</mat-label>
            <input formControlName="password" matInput [type]=" hide ? 'password' :</pre>
'text'" required />
            <button mat-icon-button matSuffix (click)="hide = !hide" [attr.aria-</pre>
label]="'Hide Password'"
            [attr.aria-pressed]="hide">
            <mat-icon>
                {{hide ? 'visibility_off' : 'visibility'}}
            </mat-icon>
        </button>
        <mat-error *ngIf="!loginForm.controls['password'].valid">
            Password is required
          </mat-error>
        </mat-form-field>
        </div>
        <button mat-flat-button color="primary">Login</button>
      </form>
      <div class="button-row">
        Create New Account
      </div>
    </mat-card-content>
  </mat-card>
```

SPEC.TS COMPONENT:

```
import { ComponentFixture, TestBed } from '@angular/core/testing';
import { LoginComponent } from './login.component';

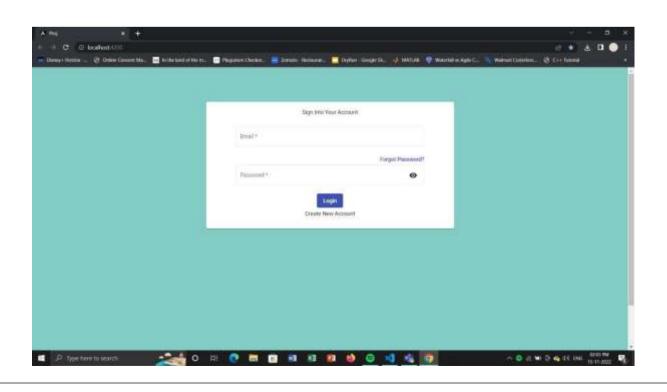
describe('LoginComponent', () => {
  let component: LoginComponent;
  let fixture: ComponentFixture<LoginComponent>;
```

```
beforeEach(async () => {
    await TestBed.configureTestingModule({
        declarations: [ LoginComponent ]
    })
    .compileComponents();

    fixture = TestBed.createComponent(LoginComponent);
    component = fixture.componentInstance;
    fixture.detectChanges();
});

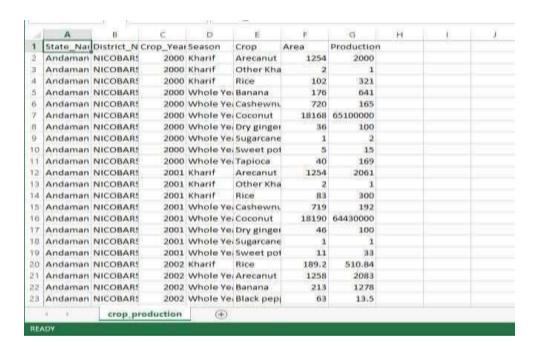
it('should create', () => {
    expect(component).toBeTruthy();
});
});
```

SCREENSHOT:



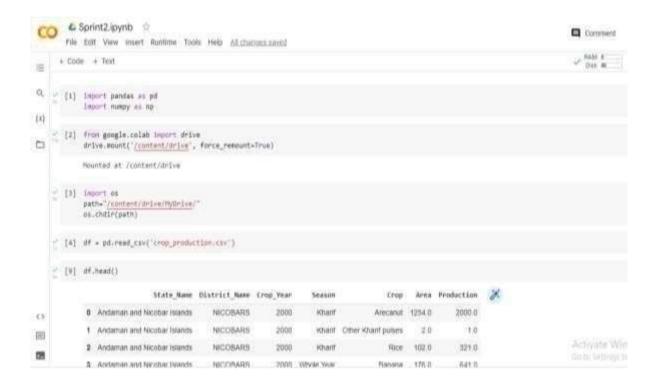
WORKING WITH DATASETS:

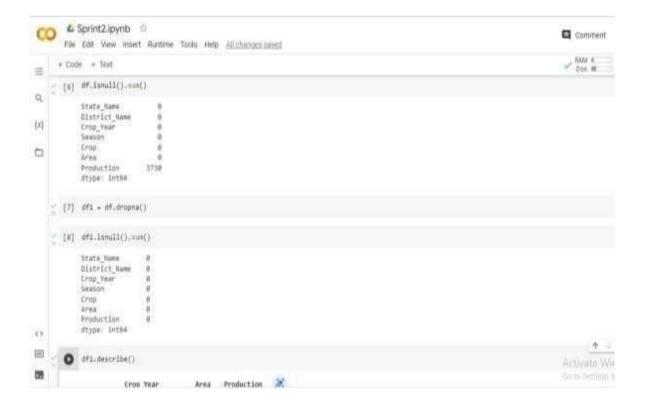
> Dataset used is as follows,

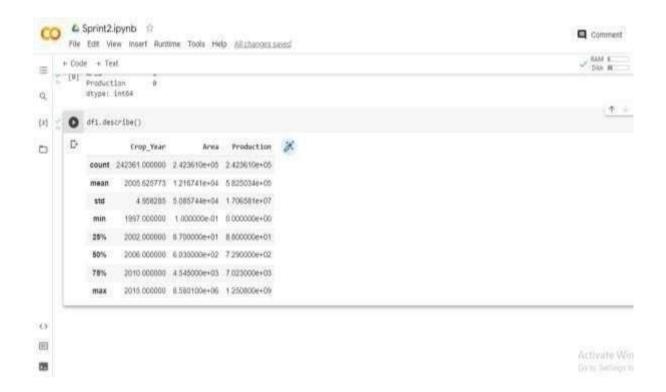


This dataset consists of columns like State Name, District Name, Crop, Season, Crop year, Area and Production.

> Importing and cleaning the dataset in Google Colab platform,

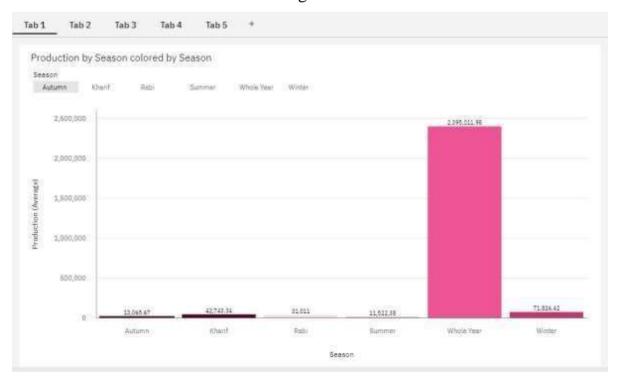






DATA VISUALIZATION CHARTS:

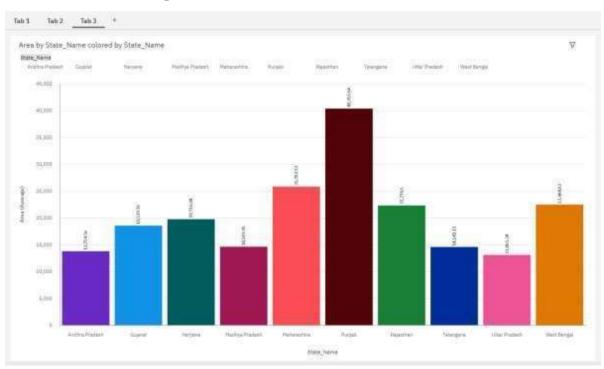
Visualization on Seasons with average Production



• Visualization with years usage of Area and Production



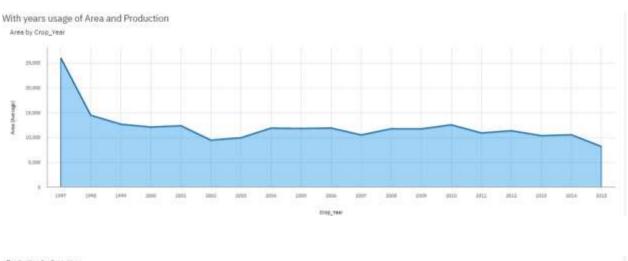
• Visualization on top 10 States with most Area

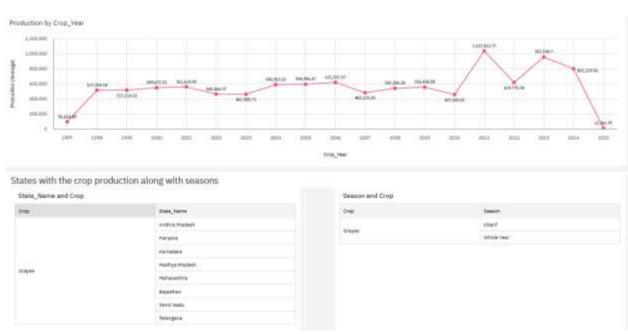


Creating the dashboard in COGNOS analytics

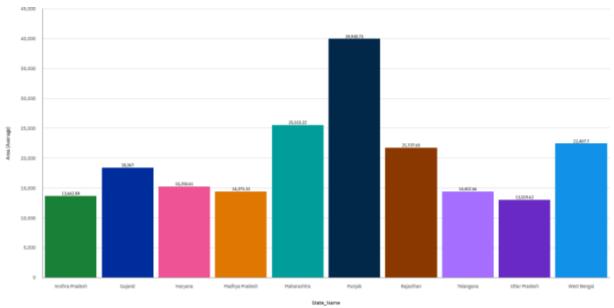
Different data visualization charts are created using COGNOS analytics for different datasets and the production by season, area, year are estimated.

DATASET 1

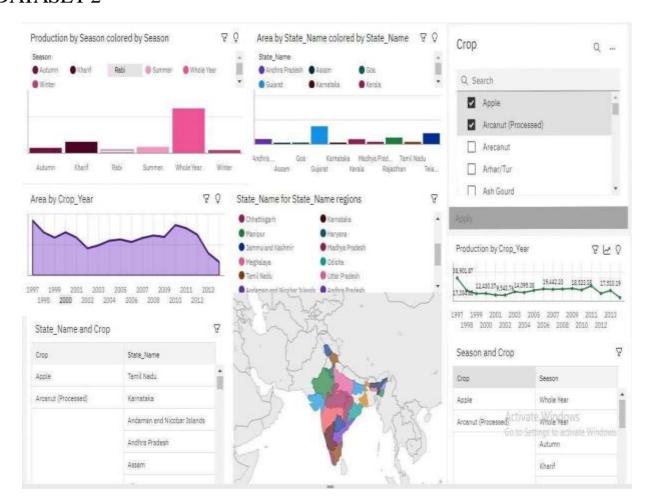




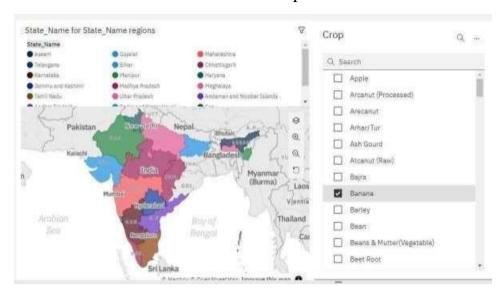




DATASET 2



• Visualization on State with Crop Production



• Visualization on States with the Crop Production along with Season

