PROJECT DEVELOPMENT PHASE

SPRINT 4 CODING

Date	19 November 2022
Team ID	PNT2022TMID21909
Project Name	ESTIMATION OF CROP YIELD USING DATA ANALYTICS

Registration Form

Name	
Email	
Password	

Register

Login Form

	Email
	Password
L	ogin

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;
```

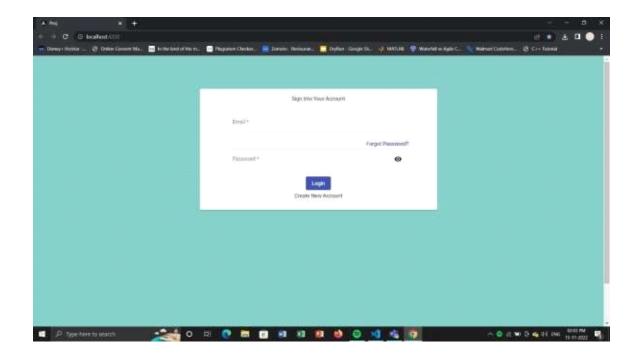
```
.forget-
 password
padding-
left: 0px;
.emailInput{
padding-top: 10px;
.contentBody {
 padding: 60px
 1rem;
 background
 :#006064;
display:
block;
.aLink{
float: right;
 padding-
right: 60px;
 text-
 decoration:
 none;
```

HTML COMPONENT:

```
<mat-form-field class="full-width" appearance="outline">
              <mat-label>Email</mat-label>
              <input
                formControlName="email"
                 placeholder="Enter email address" required
              />
              <mat-error *nglf="!loginForm.controls['email'].valid"> Email is
                 </mat-error>
            </mat-form-field>
         </div>
         <div>
            <span>
              <a class="text-link" class="aLink" routerLink="/auth/forgot-
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 />
              <but
                         mat-icon-button matSuffix (click)="hide = !hide" [attr.aria-
label]="'Hide Password'"
              [attr.aria-pressed]="hide">
              <mat-icon>
              </mat-icon>
         </button>
         <mat-error *nglf="!loginForm.controls['password'].valid"> Password is
            </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>
```

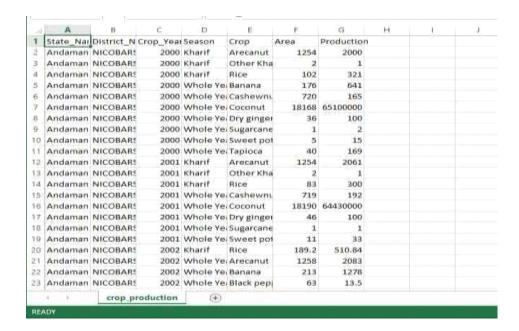
SPEC.TS COMPONENT:

SCREENSHOT:



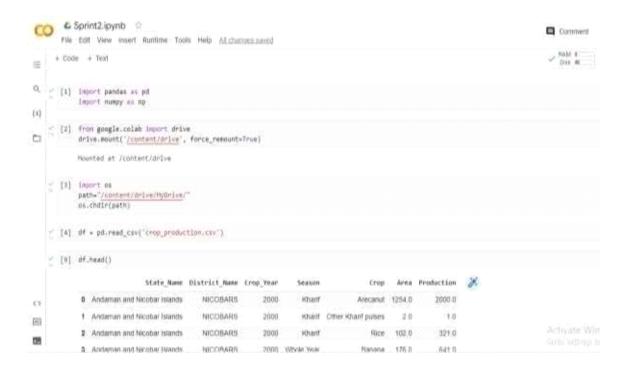
WORKING WITH DATASETS:

Dataset used is as follows,



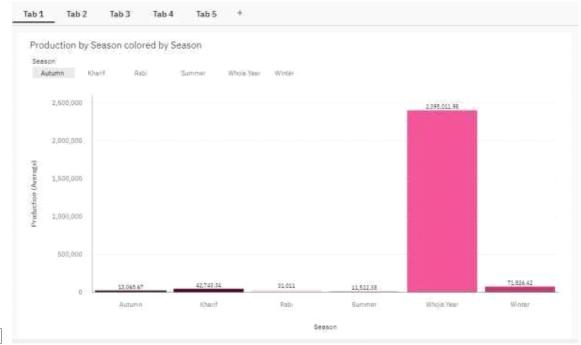
This dataset consists of columns like State Name, District Name, Crop, Season, Crop year, Area and Production.

• Importing and cleaning the dataset in Google Colab platform,



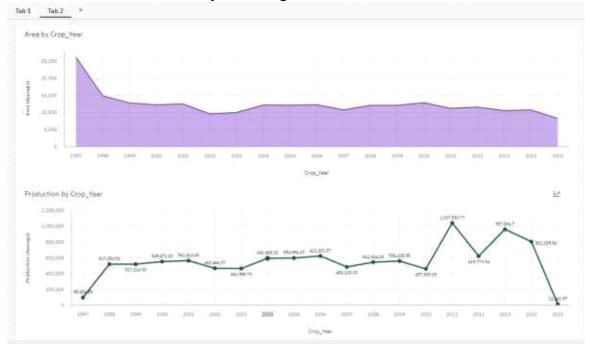


DATA VISUALIZATION CHARTS:

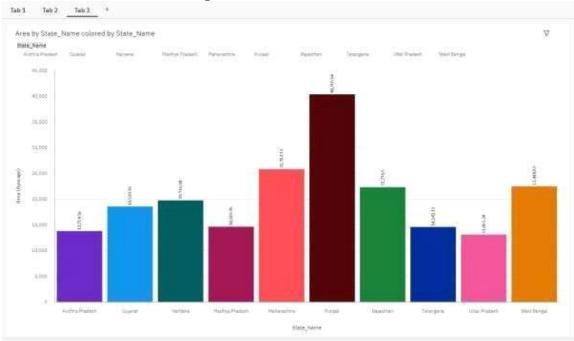


Visualization on Seasons with average Production





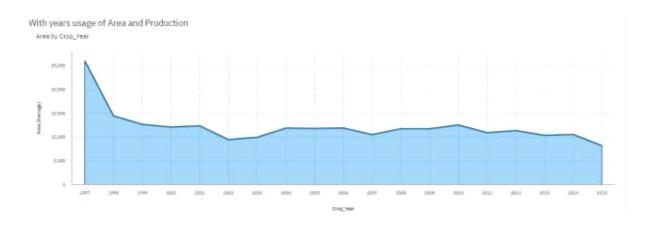
Visualization on top 10 States with most Area



Creating the dashboard in COGNOS analytics

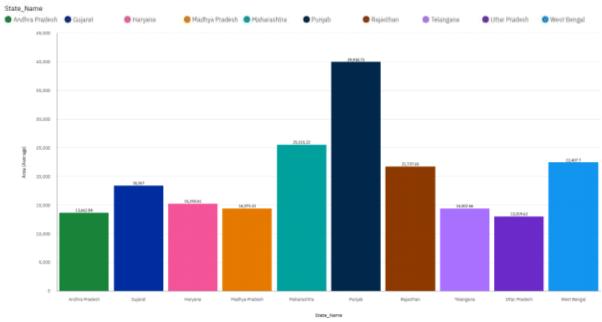
Different data visualization charts are created using COGNOS analytics

for different datasets and the production by season, area, year are estimated. DATASET 1

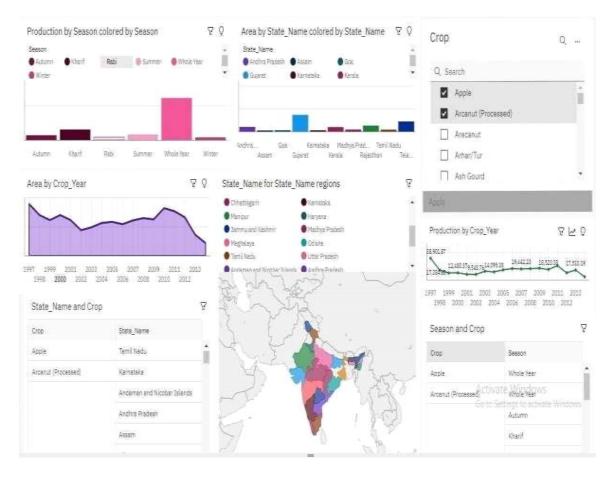


Top 10 States With Most Area

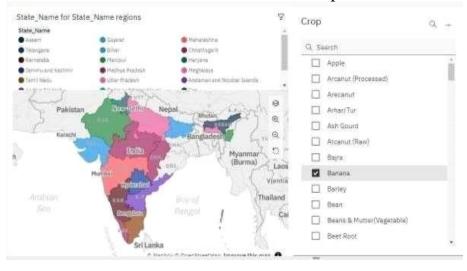




DATASET 2



Visualization on State with Crop Production



Visualization on States with the Crop Production along with Season

