React.js Material-UI

reactify material e

```
frontend/
     – public/
         – index.html
         favicon.ico
          locales/
          ---- ar/
           translation.json
          —— en/

L—— translation.json
         - assets/
      images/
      src/
         - components/
            - common/
              - auth/
              - dashboard/
              - analysis/
            - reports/
          pages/
             – Home.js
             – Login.js
             - Register.js
             - Dashboard.js
             – Analysis.js
             Reports.js
          services/
            — арі.js
           — auth.js
— analysis.js
         - utils/
        i18n.js theme.js
         - App.js
```

```
index.js package.json
```

React :

npx create-react-app frontend cd frontend npm install @mui/material @mui/icons-material @emotion/react @emotion/styled npm install react-router-dom i18next react-i18next i18next-browserlanguagedetector npm install axios formik yup react-dropzone recharts

1. (Home.js)

:

```
import React from 'react';
import {
 Container,
 Typography,
 Button,
 Grid,
 Card.
 CardContent,
 CardMedia,
 Box
} from '@mui/material';
import { useTranslation } from 'react-i18next';
import { Link } from 'react-router-dom';
const Home = () => {
 const { t } = useTranslation();
 const features = [
  {
   title: t('home.features.detection.title'),
   description: t('home.features.detection.description'),
   image: '/assets/images/crack-detection.jpg'
  },
   title: t('home.features.analysis.title'),
```

```
description: t('home.features.analysis.description'),
  image: '/assets/images/analysis.jpg'
 },
 {
  title: t('home.features.reports.title'),
  description: t('home.features.reports.description'),
  image: '/assets/images/reports.jpg'
 }
];
return (
 <Container maxWidth="lq">
  {/* Hero Section */}
  <Box
   SX={{
    textAlign: 'center',
    py: 8,
    backgroundImage: 'url(/assets/images/hero-bg.jpg)',
    backgroundSize: 'cover',
    backgroundPosition: 'center',
    borderRadius: 2,
    mb: 6,
    color: 'white'
   }}
   <Typography variant="h2" component="h1" gutterBottom>
    {t('home.hero.title')}
   </Typography>
   <Typography variant="h5" component="h2" gutterBottom>
    {t('home.hero.subtitle')}
   </Typography>
   <Button
    component={Link}
    to="/register"
    variant="contained"
    size="large"
    sx = \{\{ mt: 4 \}\}
    {t('home.hero.cta')}
   </Button>
  </Box>
  {/* Features Section */}
  <Typography variant="h4" component="h2" align="center" gutterBottom>
   {t('home.featuresSection.title')}
  </Typography>
  < Grid container spacing={4} sx={{ mt: 2 }}>
   {features.map((feature, index) => (
    <Grid item xs={12} md={4} key={index}>
     <Card sx={{ height: '100%' }}>
      < Card Media
       component="img"
```

```
height="200"
     image={feature.image}
     alt={feature.title}
    />
    <CardContent>
     <Typography variant="h5" component="h3" qutterBottom>
      {feature.title}
     </Typography>
     <Typography variant="body1">
      {feature.description}
     </Typography>
    </CardContent>
   </Card>
  </Grid>
 ))}
</Grid>
{/* How It Works Section */}
<Box sx={{ mt: 8, mb: 6 }}>
 <Typography variant="h4" component="h2" align="center" gutterBottom>
  {t('home.howItWorks.title')}
 </Typography>
 < Grid container spacing={2} sx={{ mt: 4 }}>
  <Grid item xs={12} md={4}>
   <Box sx={{ textAlign: 'center' }}>
    <imq src="/assets/images/upload.svg" alt="Upload" height="80" />
    <Typography variant="h6" component="h3" sx={{ mt: 2 }}>
     {t('home.howItWorks.step1.title')}
    </Typography>
    <Typography>
     {t('home.howItWorks.step1.description')}
    </Typography>
   </Box>
  </Grid>
  <Grid item xs={12} md={4}>
   <Box sx={{ textAlign: 'center' }}>
    <imq src="/assets/images/analyze.svg" alt="Analyze" height="80" />
    <Typography variant="h6" component="h3" sx={{ mt: 2 }}>
     {t('home.howItWorks.step2.title')}
    </Typography>
    <Typography>
     {t('home.howItWorks.step2.description')}
    </Typography>
   </Box>
  </Grid>
  <Grid item xs={12} md={4}>
   <Box sx={{ textAlign: 'center' }}>
    <imq src="/assets/images/report.svg" alt="Report" height="80" />
    <Typography variant="h6" component="h3" sx={{ mt: 2 }}>
     {t('home.howItWorks.step3.title')}
    </Typography>
    <Typography>
```

```
{t('home.howItWorks.step3.description')}
       </Typography>
      </Box>
     </Grid>
    </Grid>
   </Box>
   {/* Call to Action */}
   <Box sx={{ textAlign: 'center', py: 6 }}>
    <Typography variant="h4" component="h2" gutterBottom>
     {t('home.cta.title')}
    </Typography>
    <Typography variant="body1" gutterBottom sx={{ mb: 4 }}>
     {t('home.cta.description')}
    </Typography>
    <Button
     component={Link}
     to="/register"
     variant="contained"
     size="large"
     {t('home.cta.button')}
    </Button>
   </Box>
  </Container>
);
};
export default Home;
```

2. (Login.js)

```
import React, { useState } from 'react';
import {
 Container,
 Typography,
 TextField,
 Button,
 Paper,
 Box,
 Link,
 Alert
} from '@mui/material';
import { useTranslation } from 'react-i18next';
import { Link as RouterLink, useNavigate } from 'react-router-dom';
import { useFormik } from 'formik';
import * as Yup from 'yup';
// import { login } from '../services/auth';
const Login = () => {
```

```
const { t } = useTranslation();
const navigate = useNavigate();
const [error, setError] = useState(");
const validationSchema = Yup.object({
 email: Yup.string()
  .email(t('validation.email'))
  .required(t('validation.required')),
 password: Yup.string()
  .required(t('validation.required'))
});
const formik = useFormik({
 initialValues: {
  email: ",
  password: "
 },
 validationSchema,
 onSubmit: async (values) => {
  try {
   // Placeholder for actual login API call
   // const response = await login(values.email, values.password);
   console.log('Login submitted:', values);
   // Simulate successful login
   localStorage.setItem('isAuthenticated', 'true');
   navigate('/dashboard');
  } catch (err) {
   setError(t('login.error'));
  }
 }
});
return (
 <Container maxWidth="sm">
  <Paper elevation={3} sx={{ p: 4, mt: 8 }}>
   <Typography variant="h4" component="h1" align="center" gutterBottom>
    {t('login.title')}
   </Typography>
   {error && (
    <Alert severity="error" sx={{ mb: 3 }}>
     {error}
    </Alert>
   )}
   <form onSubmit={formik.handleSubmit}>
    <TextField
     fullWidth
     id="email"
     name="email"
     label={t('login.email')}
     value={formik.values.email}
```

```
onChange={formik.handleChange}
      error={formik.touched.email && Boolean(formik.errors.email)}
      helperText={formik.touched.email && formik.errors.email}
      margin="normal"
     />
     <TextField
      fullWidth
      id="password"
      name="password"
      label={t('login.password')}
      type="password"
      value={formik.values.password}
      onChange={formik.handleChange}
      error={formik.touched.password && Boolean(formik.errors.password)}
      helperText={formik.touched.password && formik.errors.password}
      margin="normal"
     />
     <Button
      type="submit"
      variant="contained"
      fullWidth
      size="large"
      sx={{ mt: 3 }}
      {t('login.submit')}
     </Button>
    </form>
    <Box sx={{ mt: 2, textAlign: 'center' }}>
     <Link component={RouterLink} to="/forgot-password">
      {t('login.forgotPassword')}
     </Link>
    </Box>
    <Box sx={{ mt: 3, textAlign: 'center' }}>
     <Typography variant="body2">
      {t('login.noAccount')}{' '}
      <Link component={RouterLink} to="/register">
       {t('login.register')}
      </Link>
     </Typography>
    </Box>
   </Paper>
  </Container>
);
export default Login;
```

};

```
import React, { useState } from 'react';
import {
 Container,
 Typography,
 TextField,
 Button,
 Paper,
 Box,
 Link,
 Alert.
 FormControl,
 InputLabel,
 Select,
 MenuItem
} from '@mui/material';
import { useTranslation } from 'react-i18next';
import { Link as RouterLink, useNavigate } from 'react-router-dom';
import { useFormik } from 'formik';
import * as Yup from 'yup';
// import { register } from '../services/auth';
const Register = () => {
 const { t } = useTranslation();
 const navigate = useNavigate();
 const [error, setError] = useState(");
 const validationSchema = Yup.object({
  fullName: Yup.string()
   .required(t('validation.required')),
  email: Yup.string()
   .email(t('validation.email'))
   .required(t('validation.required')),
  password: Yup.string()
   .min(8, t('validation.passwordLength'))
   .required(t('validation.required')),
  confirmPassword: Yup.string()
   .oneOf([Yup.ref('password'), null], t('validation.passwordMatch'))
   .required(t('validation.required')),
  userType: Yup.string()
   .required(t('validation.required'))
 });
 const formik = useFormik({
  initialValues: {
   fullName: ",
   email: ",
   password: ",
   confirmPassword: ",
   userType: "
```

```
},
 validationSchema.
 onSubmit: async (values) => {
  try {
   // Placeholder for actual register API call
   // const response = await register(values);
   console.log('Registration submitted:', values);
   navigate('/login');
  } catch (err) {
   setError(t('register.error'));
  }
 }
});
return (
 <Container maxWidth="sm">
  <Paper elevation={3} sx={{ p: 4, mt: 8, mb: 8 }}>
   <Typography variant="h4" component="h1" align="center" gutterBottom>
    {t('register.title')}
   </Typography>
   {error && (
    <al>Alert severity="error" sx={{ mb: 3 }}>
     {error}
    </Alert>
   )}
   <form onSubmit={formik.handleSubmit}>
    <TextField
     fullWidth
     id="fullName"
     name="fullName"
     label={t('register.fullName')}
     value={formik.values.fullName}
     onChange={formik.handleChange}
     error={formik.touched.fullName && Boolean(formik.errors.fullName)}
     helperText={formik.touched.fullName && formik.errors.fullName}
     margin="normal"
    />
    <TextField
     fullWidth
     id="email"
     name="email"
     label={t('register.email')}
     value={formik.values.email}
     onChange={formik.handleChange}
     error={formik.touched.email && Boolean(formik.errors.email)}
     helperText={formik.touched.email && formik.errors.email}
     margin="normal"
    />
```

```
<TextField
      fullWidth
      id="password"
      name="password"
      label={t('register.password')}
      type="password"
      value={formik.values.password}
      onChange={formik.handleChange}
      error={formik.touched.password && Boolean(formik.errors.password)}
      helperText={formik.touched.password && formik.errors.password}
      margin="normal"
     />
     <TextField
      fullWidth
      id="confirmPassword"
      name="confirmPassword"
      label={t('register.confirmPassword')}
      type="password"
      value={formik.values.confirmPassword}
      onChange={formik.handleChange}
      error={formik.touched.confirmPassword &&
Boolean(formik.errors.confirmPassword)}
      helperText={formik.touched.confirmPassword &&
formik.errors.confirmPassword}
      margin="normal"
     />
     < Form Control full Width margin="normal">
      <InputLabel id="userType-label">{t('register.userType')}</InputLabel>
      <Select
       labelId="userType-label"
       id="userType"
       name="userType"
       value={formik.values.userType}
       onChange={formik.handleChange}
       error={formik.touched.userType && Boolean(formik.errors.userType)}
       label={t('register.userType')}
       < MenuItem value="engineer">{t('register.userTypes.engineer')}</
MenuItem>
       < MenuItem value="inspector">{t('register.userTypes.inspector')}</
MenuItem>
       < MenuItem value="company">{t('register.userTypes.company')}</
MenuItem>
      </Select>
      {formik.touched.userType && formik.errors.userType && (
       <Typography color="error" variant="caption">
        {formik.errors.userType}
       </Typography>
      )}
     </FormControl>
```

```
<Button
      type="submit"
      variant="contained"
      fullWidth
      size="large"
      sx={{ mt: 3 }}
      {t('register.submit')}
     </Button>
    </form>
    <Box sx={{ mt: 3, textAlign: 'center' }}>
     <Typography variant="body2">
      {t('register.haveAccount')}{' '}
      <Link component={RouterLink} to="/login">
       {t('register.login')}
      </Link>
     </Typography>
    </Box>
   </Paper>
  </Container>
);
};
export default Register;
```

4. (Dashboard.js)

```
import React from 'react';
import {
Container,
Typography,
 Grid,
 Paper,
 Box,
 Card,
 CardContent,
 CardHeader,
 List,
 ListItem,
 ListItemText,
 Divider,
 Button
} from '@mui/material';
import {
 BarChart,
 Bar.
 XAxis,
YAxis,
```

```
CartesianGrid,
 Tooltip,
 Legend,
 PieChart,
 Pie.
 Cell
} from 'recharts';
import { useTranslation } from 'react-i18next';
import { Link } from 'react-router-dom';
const Dashboard = () => {
 const { t } = useTranslation();
// Sample data for charts
 const defectTypeData = [
  { name: t('dashboard.charts.defectTypes.cracks'), value: 65 },
  { name: t('dashboard.charts.defectTypes.corrosion'), value: 15 },
  { name: t('dashboard.charts.defectTypes.exposedBars'), value: 10 },
  { name: t('dashboard.charts.defectTypes.dampness'), value: 10 }
];
 const monthlyAnalysisData = [
  { name: t('months.jan'), analyses: 12 },
  { name: t('months.feb'), analyses: 19 },
  { name: t('months.mar'), analyses: 25 },
  { name: t('months.apr'), analyses: 32 },
  { name: t('months.may'), analyses: 20 },
  { name: t('months.jun'), analyses: 18 }
1;
 const recentProjects = [
  { id: 1, name: t('dashboard.recentProjects.project1'), date: '2025-04-15', status:
t('status.active') },
  { id: 2, name: t('dashboard.recentProjects.project2'), date: '2025-04-10', status:
t('status.completed') },
  { id: 3, name: t('dashboard.recentProjects.project3'), date: '2025-04-05', status:
t('status.active') }
];
 const recentAnalyses = [
  { id: 1, name: t('dashboard.recentAnalyses.analysis1'), date: '2025-04-20', defects:
5 },
  { id: 2, name: t('dashboard.recentAnalyses.analysis2'), date: '2025-04-18', defects:
2 },
  { id: 3, name: t('dashboard.recentAnalyses.analysis3'), date: '2025-04-15', defects:
8 }
];
 const COLORS = ['#0088FE', '#00C49F', '#FFBB28', '#FF8042'];
 return (
  <Container maxWidth="lg" sx={{ mt: 4, mb: 4 }}>
```

```
<Typography variant="h4" component="h1" gutterBottom>
 {t('dashboard.title')}
</Typography>
{/* Summary Cards */}
< Grid container spacing={3} sx={{ mb: 4 }}>
 <Grid item xs={12} sm={6} md={3}>
  <Paper
   SX={{
    p: 2,
    display: 'flex',
    flexDirection: 'column',
    height: 140,
    bgcolor: '#bbdefb'
   }}
   <Typography variant="h6" gutterBottom>
    {t('dashboard.summary.projects')}
   </Typography>
   <Typography variant="h3" component="div" sx={{ flexGrow: 1 }}>
   </Typography>
  </Paper>
 </Grid>
 <Grid item xs={12} sm={6} md={3}>
  <Paper
   SX={{
    p: 2,
    display: 'flex',
    flexDirection: 'column',
    height: 140,
    bgcolor: '#c8e6c9'
   }}
   <Typography variant="h6" gutterBottom>
    {t('dashboard.summary.analyses')}
   </Typography>
   <Typography variant="h3" component="div" sx={{ flexGrow: 1 }}>
    48
   </Typography>
  </Paper>
 </Grid>
 <Grid item xs={12} sm={6} md={3}>
  <Paper
   SX = \{\{
    p: 2,
    display: 'flex',
    flexDirection: 'column',
    height: 140,
    bgcolor: '#fff9c4'
  }}
```

```
<Typography variant="h6" gutterBottom>
    {t('dashboard.summary.defects')}
   </Typography>
   <Typography variant="h3" component="div" sx={{ flexGrow: 1 }}>
    156
   </Typography>
  </Paper>
 </Grid>
 <Grid item xs={12} sm={6} md={3}>
  <Paper
   SX={{
    p: 2,
    display: 'flex',
    flexDirection: 'column',
    height: 140,
    bgcolor: '#ffccbc'
  }}
   <Typography variant="h6" gutterBottom>
    {t('dashboard.summary.reports')}
   </Typography>
   <Typography variant="h3" component="div" sx={{ flexGrow: 1 }}>
    24
   </Typography>
  </Paper>
 </Grid>
</Grid>
{/* Charts */}
< Grid container spacing={3} sx={{ mb: 4 }}>
 <Grid item xs={12} md={8}>
  <Paper sx={{ p: 2 }}>
   <Typography variant="h6" gutterBottom>
    {t('dashboard.charts.monthlyAnalysis')}
   </Typography>
   <Box sx={{ height: 300 }}>
    <BarChart
     width={600}
     height={300}
     data={monthlyAnalysisData}
     margin={{ top: 5, right: 30, left: 20, bottom: 5 }}
     < Cartesian Grid stroke Dasharray = "3 3" />
     <XAxis dataKey="name" />
     <YAxis/>
     <Tooltip />
     <Legend />
     <Bar dataKey="analyses" fill="#8884d8" />
    </BarChart>
   </Box>
  </Paper>
 </Grid>
```

```
<Grid item xs={12} md={4}>
     <Paper sx={{ p: 2 }}>
      <Typography variant="h6" qutterBottom>
       {t('dashboard.charts.defectDistribution')}
      </Typography>
      <Box sx={{ height: 300, display: 'flex', justifyContent: 'center' }}>
       <PieChart width={300} height={300}>
         <Pie
          data={defectTypeData}
          cx="50%"
          cy="50%"
          labelLine={false}
          outerRadius={100}
         fill="#8884d8"
          dataKey="value"
          label = \{(\{ name, percent \}) = > \{ (percent * 100).toFixed(0) \} \% \}
        >
          {defectTypeData.map((entry, index) => (
           <Cell key={`cell-${index}`} fill={COLORS[index % COLORS.length]} />
         ))}
         </Pie>
        <Tooltip />
       </PieChart>
      </Box>
     </Paper>
    </Grid>
   </Grid>
   {/* Recent Activity */}
   < Grid container spacing = {3}>
    <Grid item xs={12} md={6}>
     <Card>
      <CardHeader title={t('dashboard.recentProjects.title')} />
      <CardContent>
       <List>
        {recentProjects.map((project, index) => (
          <React.Fragment key={project.id}>
           <ListItem>
            <ListItemText
             primary={project.name}
             secondary={`${t('dashboard.date')}: ${project.date} | $
{t('dashboard.status')}: ${project.status}`}
            />
           </ListItem>
           {index < recentProjects.length - 1 && < Divider />}
          </React.Fragment>
        ))}
       </List>
       <Button
        component={Link}
        to="/projects"
        variant="outlined"
```

```
fullWidth
        sx={{ mt: 2 }}
        {t('dashboard.viewAll')}
       </Button>
      </CardContent>
     </Card>
    </Grid>
    <Grid item xs={12} md={6}>
      <CardHeader title={t('dashboard.recentAnalyses.title')} />
      <CardContent>
       <List>
        {recentAnalyses.map((analysis, index) => (
          <React.Fragment key={analysis.id}>
           <ListItem>
            <ListItemText
             primary={analysis.name}
             secondary={`${t('dashboard.date')}: ${analysis.date} | $
{t('dashboard.defectsFound')}: ${analysis.defects}`}
            />
           </ListItem>
           {index < recentAnalyses.length - 1 && < Divider />}
         </React.Fragment>
        ))}
       </List>
       <Button
        component={Link}
        to="/analysis"
        variant="outlined"
        fullWidth
        sx={{ mt: 2 }}
        {t('dashboard.viewAll')}
       </Button>
      </CardContent>
     </Card>
    </Grid>
   </Grid>
  </Container>
);
};
export default Dashboard;
```

5. (Analysis.js)

```
import React, { useState } from 'react';
import {
  Container,
```

```
Typography,
 Paper,
 Box,
 Button,
 Grid,
 Card,
 CardContent,
 CardMedia,
 Chip,
 CircularProgress,
 Alert,
 Divider,
 List.
 ListItem,
 ListItemText,
 ListItemIcon
} from '@mui/material';
import {
 CloudUpload as CloudUploadIcon,
 BugReport as BugReportIcon,
 CheckCircle as CheckCircleIcon,
 Warning as WarningIcon
} from '@mui/icons-material';
import { useTranslation } from 'react-i18next';
import { useDropzone } from 'react-dropzone';
const Analysis = () => {
 const { t } = useTranslation();
 const [files, setFiles] = useState([]);
 const [isAnalyzing, setIsAnalyzing] = useState(false);
 const [analysisComplete, setAnalysisComplete] = useState(false);
 const [analysisResults, setAnalysisResults] = useState(null);
 const [error, setError] = useState(");
 const onDrop = acceptedFiles => {
  setFiles(acceptedFiles.map(file => Object.assign(file, {
   preview: URL.createObjectURL(file)
  })));
 };
 const { getRootProps, getInputProps, isDragActive } = useDropzone({
  onDrop,
  accept: {
   'image/*': ['.jpeg', '.jpg', '.png'],
   'video/*': ['.mp4', '.mov']
  },
  maxFiles: 5
 });
 const handleAnalyze = () => {
  if (files.length === 0) {
   setError(t('analysis.noFilesError'));
```

```
return;
}
setError(");
setIsAnalyzing(true);
// Simulate API call for analysis
setTimeout(() => {
 // Mock analysis results
 const mockResults = {
  totalDefects: 7,
  defectTypes: {
   cracks: 4,
   corrosion: 2,
   exposedBars: 1
  },
  defects: [
   {
     id: 1,
     type: 'crack',
     severity: 'high',
     location: { x: 120, y: 250, width: 80, height: 15 },
     confidence: 0.92
   },
   {
     id: 2,
     type: 'crack',
     severity: 'medium',
     location: { x: 320, y: 150, width: 60, height: 10 },
     confidence: 0.87
   },
   {
     id: 3,
     type: 'crack',
     severity: 'low',
     location: { x: 420, y: 350, width: 40, height: 5 },
     confidence: 0.78
   },
   {
     id: 4,
     type: 'crack',
     severity: 'medium',
     location: { x: 220, y: 450, width: 70, height: 12 },
     confidence: 0.85
   },
     id: 5,
     type: 'corrosion',
     severity: 'medium',
     location: { x: 520, y: 250, width: 100, height: 100 },
     confidence: 0.81
   },
```

```
id: 6,
     type: 'corrosion',
      severity: 'high',
     location: { x: 620, y: 350, width: 120, height: 80 },
      confidence: 0.94
    },
    {
     id: 7,
     type: 'exposedBars',
      severity: 'high',
     location: { x: 320, y: 550, width: 150, height: 30 },
      confidence: 0.89
    }
   ]
  };
  setAnalysisResults(mockResults);
  setIsAnalyzing(false);
  setAnalysisComplete(true);
 }, 3000);
};
const clearAnalysis = () => {
 setFiles([]);
 setAnalysisComplete(false);
 setAnalysisResults(null);
 setError(");
 // Revoke object URLs to avoid memory leaks
 files.forEach(file => URL.revokeObjectURL(file.preview));
};
const getSeverityColor = (severity) => {
 switch (severity) {
  case 'high':
   return '#f44336'; // red
  case 'medium':
   return '#ff9800'; // orange
  case 'low':
   return '#4caf50'; // green
  default:
   return '#2196f3'; // blue
 }
};
return (
 <Container maxWidth="lg" sx={{ mt: 4, mb: 4 }}>
  <Typography variant="h4" component="h1" gutterBottom>
   {t('analysis.title')}
  </Typography>
```

```
{error && (
 <al>Alert severity="error" sx={{ mb: 3 }}>
  {error}
 </Alert>
)}
{!analysisComplete?(
 <Paper sx={{ p: 3, mb: 4 }}>
  <Box
   {...getRootProps()}
   SX=\{\{
    border: '2px dashed #cccccc',
    borderRadius: 2,
    p: 3,
    textAlign: 'center',
    bgcolor: isDragActive? '#f0f8ff': 'background.paper',
    cursor: 'pointer'
   }}
   <input {...getInputProps()} />
   < CloudUploadIcon sx={{ fontSize: 48, color: 'primary.main', mb: 2 }} />
   <Typography variant="h6" gutterBottom>
    {isDragActive
     ? t('analysis.dropzone.active')
     : t('analysis.dropzone.inactive')}
   </Typography>
   <Typography variant="body2" color="textSecondary">
    {t('analysis.dropzone.hint')}
   </Typography>
  </Box>
  \{files.length > 0 \&\& (
   <Box sx={{ mt: 3 }}>
    <Typography variant="h6" gutterBottom>
     {t('analysis.selectedFiles')}
    </Typography>
    < Grid container spacing = {2}>
     {files.map((file, index) => (
      <Grid item xs={6} sm={4} md={3} key={index}>
       <Card>
         < Card Media
         component="imq"
          height="140"
         image={file.preview}
         alt={file.name}
         />
         <CardContent sx={{ py: 1 }}>
          <Typography variant="body2" noWrap>
           {file.name}
          </Typography>
          <Typography variant="caption" color="textSecondary">
           {(file.size / 1024 / 1024).toFixed(2)} MB
```

```
</Typography>
            </CardContent>
           </Card>
          </Grid>
        ))}
       </Grid>
       <Box sx={{ mt: 3, display: 'flex', justifyContent: 'center' }}>
        <Button
         variant="contained"
          color="primary"
          size="large"
          onClick={handleAnalyze}
          disabled={isAnalyzing}
          startIcon={isAnalyzing? < CircularProgress size={24} color="inherit" /> :
<BugReportIcon />}
         sx={{ mr: 2 }}
          {isAnalyzing? t('analysis.analyzing'): t('analysis.analyze')}
         </Button>
        <Button
         variant="outlined"
          color="secondary"
          size="large"
          onClick={clearAnalysis}
          disabled={isAnalyzing}
         {t('analysis.clear')}
        </Button>
       </Box>
      </Box>
     )}
    </Paper>
   ):(
    <Box>
     <al>Alert severity="success" sx={{ mb: 3 }}>
      {t('analysis.analysisComplete')}
     </Alert>
     <Paper sx={{ p: 3, mb: 4 }}>
      <Typography variant="h5" gutterBottom>
       {t('analysis.results.summary')}
      </Typography>
      < Grid container spacing={3} sx={{ mb: 3 }}>
       <Grid item xs={12} sm={4}>
        <Paper
         SX = \{\{
           p: 2,
           textAlign: 'center',
           bgcolor: '#e3f2fd'
         }}
```

```
<Typography variant="h6" gutterBottom>
           {t('analysis.results.totalDefects')}
          </Typography>
          <Typography variant="h3">
          {analysisResults.totalDefects}
          </Typography>
        </Paper>
       </Grid>
       <Grid item xs={12} sm={8}>
        <Paper sx={{ p: 2, height: '100%' }}>
          <Typography variant="h6" gutterBottom>
           {t('analysis.results.defectTypes')}
          </Typography>
          <Box sx={{ display: 'flex', flexWrap: 'wrap', gap: 1 }}>
            label={`${t('defects.cracks')}: ${analysisResults.defectTypes.cracks}`}
            color="primary"
           />
           <Chip
            label={`${t('defects.corrosion')}: $
{analysisResults.defectTypes.corrosion}`}
            color="secondary"
           />
           <Chip
            label={`${t('defects.exposedBars')}: $
{analysisResults.defectTypes.exposedBars}`}
            color="warning"
          />
          </Box>
        </Paper>
       </Grid>
      </Grid>
      <Divider sx={{ mb: 3 }} />
      <Typography variant="h5" gutterBottom>
       {t('analysis.results.detailedResults')}
      </Typography>
      <Grid container spacing={3}>
       <Grid item xs={12} md={6}>
        <Card>
         < Card Media
           component="imq"
           height="400"
           image={files[0].preview}
           alt="Analyzed image"
         />
        </Card>
       </Grid>
       <Grid item xs={12} md={6}>
```

```
<Paper sx={{ p: 2, height: '100%', maxHeight: 400, overflow: 'auto' }}>
          <Typography variant="h6" gutterBottom>
           {t('analysis.results.defectList')}
          </Typography>
          <List>
           {analysisResults.defects.map((defect) => (
            <ListItem key={defect.id} divider>
             <ListItemIcon>
              {defect.severity === 'high'?(
                < warningIcon sx={{ color: getSeverityColor(defect.severity) }} />
              ):(
                <CheckCircleIcon sx={{ color: getSeverityColor(defect.severity) }} />
              )}
             </ListItemIcon>
             <ListItemText
              primary={'${t('defects.${defect.type}')} - ${t('severity.$
{defect.severity}`)}`}
              secondary={`${t('analysis.results.confidence')}: ${(defect.confidence
* 100).toFixed(0)}%`}
             />
             <Chip
              label={t(`severity.${defect.severity}`)}
              SX={{
                bgcolor: getSeverityColor(defect.severity),
               color: 'white'
              }}
              size="small"
             />
            </ListItem>
           ))}
          </List>
         </Paper>
        </Grid>
      </Grid>
       <Box sx={{ mt: 3, display: 'flex', justifyContent: 'center' }}>
        <Button
         variant="contained"
         color="primary"
         size="large"
        sx={{ mr: 2 }}
         {t('analysis.results.generateReport')}
        </Button>
        <Button
         variant="outlined"
         color="secondary"
         size="large"
         onClick={clearAnalysis}
         {t('analysis.newAnalysis')}
        </Button>
```

```
</Box>
</Box>
</Box>
)}
</Container>
);
};
export default Analysis;
```

1. (translation.json ar)

```
"app": {
"title": "
"tagline": "
"nav": {
 "home": "
 "login": "
 "register": "
 "dashboard": "
 "analysis": "
 "reports": "
 "projects": "
 "profile": "
 "logout": "
 "language": "
},
"home": {
 "hero": {
  "title": "
  "subtitle": "
  "cta": "
 "featuresSection": {
 "title": "
 "features": {
  "detection": {
   "title": "
   "description": "
  "analysis": {
```

```
"title": "
   "description": "
  "reports": {
   "title": "
   "description": "
 }
 },
 "howItWorks": {
  "title": "
  "step1": {
   "title": "
   "description": "
  "step2": {
   "title": "
   "description": "
  },
  "step3": {
   "title": "
   "description": "
 }
 },
 "cta": {
  "title": "
  "description": "
  "button": "
}
},
"login": {
 "title": "
 "email": "
 "password": "
 "submit": "
 "forgotPassword": "
 "noAccount": "
 "register": "
 "error": "
"register": {
 "title": "
 "fullName": "
 "email": "
 "password": "
 "confirmPassword": "
 "userType": "
 "userTypes": {
  "engineer": "
```

```
"inspector": "
  "company": "
 },
 "submit": "
 "haveAccount": "
 "login": "
 "error": "
},
"validation": {
 "required": "
 "email": "
 "passwordLength": "
 "passwordMatch": "
},
"dashboard": {
 "title": "
 "summary": {
  "projects": "
  "analyses": "
  "defects": "
  "reports": "
 },
 "charts": {
  "monthlyAnalysis": "
  "defectDistribution": "
  "defectTypes": {
   "cracks": "
   "corrosion": "
   "exposedBars": "
   "dampness": "
  }
 },
 "recentProjects": {
  "title": "
  "project1": "
  "project2": "
  "project3": "
 },
 "recentAnalyses": {
  "title": "
  "analysis1": "
  "analysis2": "
  "analysis3": "
 },
 "date": "
 "status": "
 "defectsFound": "
 "viewAll": "
},
"analysis": {
 "title": "
 "dropzone": {
```

```
"active": "
  "inactive": "
                                                          5:
                                                                       )"
  "hint": "
                               IPG
                                      PNG
                                              MP4 (
 },
 "selectedFiles": "
 "analyze": "
 "analyzing": "
 "clear": " ",
 "noFilesError": "
                                               !",
 "analysisComplete": "
 "results": {
  "summary": "
  "totalDefects": "
  "defectTypes": "
  "detailedResults": "
  "defectList": "
  "confidence": "
  "generateReport": "
 "newAnalysis": "
},
"defects": {
 "crack": "
 "cracks": "
 "corrosion": "
 "exposedBars": "
 "dampness": "
 "mould": "
},
"severity": {
 "high": "
 "medium": "
"low": "
},
"status": {
 "active": "
 "completed": "
 "pending": "
},
"months": {
 "jan": "
 "feb": "
 "mar": "
 "apr": "
 "may": "
 "jun": "
 "jul": "
 "aug": "
 "sep": "
 "oct": "
 "nov": "
 "dec": "
```

```
}
}
```

2. (translation.json en)

```
{
 "app": {
  "title": "Structural Defect Detection System",
  "tagline": "AI-Powered Structural Defect Detection"
},
 "nav": {
  "home": "Home",
  "login": "Login",
  "register": "Register",
  "dashboard": "Dashboard",
  "analysis": "Analysis",
  "reports": "Reports",
  "projects": "Projects",
  "profile": "Profile",
  "logout": "Logout",
  "language": "Language"
},
 "home": {
  "hero": {
   "title": "AI-Powered Structural Defect Detection",
   "subtitle": "Advanced system for detecting and analyzing structural defects in
buildings and bridges using computer vision",
   "cta": "Get Started"
  "featuresSection": {
   "title": "Features"
  "features": {
   "detection": {
    "title": "High-Precision Defect Detection",
    "description": "Detect cracks, corrosion, exposed reinforcement bars, and
other structural defects using advanced AI algorithms"
   "analysis": {
    "title": "Comprehensive Defect Analysis",
    "description": "Detailed analysis of detected defects with location, severity,
area, and classification by risk level"
   },
   "reports": {
    "title": "Professional Reports",
    "description": "Generate detailed and comprehensive reports on the
condition of structures with recommendations for repair and maintenance"
   }
  "howItWorks": {
```

```
"title": "How It Works",
   "step1": {
    "title": "Upload Images & Videos",
    "description": "Upload images or videos of the structures you want to inspect"
   },
   "step2": {
    "title": "AI Analysis",
    "description": "The system analyzes the images and videos to detect
structural defects"
   },
   "step3": {
    "title": "Get Reports",
    "description": "View analysis results and get detailed reports on detected
defects"
   }
  },
  "cta": {
   "title": "Start Using the System Today",
   "description": "Join hundreds of engineers and inspectors who use our system
to improve the efficiency of inspection and maintenance operations",
   "button": "Create Free Account"
  }
},
 "login": {
  "title": "Login",
  "email": "Email",
  "password": "Password",
  "submit": "Login",
  "forgotPassword": "Forgot Password?",
  "noAccount": "Don't have an account?",
  "register": "Create a new account",
  "error": "An error occurred during login. Please check your credentials and try
again."
 },
 "register": {
  "title": "Create New Account",
  "fullName": "Full Name",
  "email": "Email",
  "password": "Password",
  "confirmPassword": "Confirm Password",
  "userType": "User Type",
  "userTypes": {
   "engineer": "Structural Engineer",
   "inspector": "Building Inspector",
   "company": "Construction Company"
  "submit": "Create Account",
  "haveAccount": "Already have an account?",
  "login": "Login",
  "error": "An error occurred during account creation. Please try again."
},
 "validation": {
```

```
"required": "This field is required",
 "email": "Please enter a valid email",
 "passwordLength": "Password must be at least 8 characters",
 "passwordMatch": "Passwords do not match"
},
"dashboard": {
 "title": "Dashboard",
 "summary": {
  "projects": "Projects",
  "analyses": "Analyses",
  "defects": "Detected Defects",
  "reports": "Reports"
 },
 "charts": {
  "monthlyAnalysis": "Monthly Analyses",
  "defectDistribution": "Defect Type Distribution",
  "defectTypes": {
   "cracks": "Cracks",
   "corrosion": "Corrosion",
   "exposedBars": "Exposed Bars",
   "dampness": "Dampness"
  }
 },
 "recentProjects": {
  "title": "Recent Projects",
  "project1": "Residential Building - Riyadh",
  "project2": "Pedestrian Bridge - Jeddah",
  "project3": "Commercial Building - Dammam"
 },
 "recentAnalyses": {
  "title": "Recent Analyses",
  "analysis1": "Ground Floor - Residential Building",
  "analysis2": "Support Columns - Pedestrian Bridge",
  "analysis3": "Exterior Facade - Commercial Building"
 },
 "date": "Date",
 "status": "Status",
 "defectsFound": "Defects Found",
 "viewAll": "View All"
},
"analysis": {
 "title": "Image & Video Analysis",
 "dropzone": {
  "active": "Drop the files here",
  "inactive": "Drag & drop images or videos here, or click to select",
  "hint": "You can upload JPG, PNG, or MP4 files (Max: 5 files)"
 },
 "selectedFiles": "Selected Files",
 "analyze": "Analyze Files",
 "analyzing": "Analyzing...",
 "clear": "Clear",
 "noFilesError": "Please select at least one file for analysis",
```

```
"analysisComplete": "Analysis completed successfully!",
  "results": {
   "summary": "Results Summary",
   "totalDefects": "Total Defects",
   "defectTypes": "Defect Types",
   "detailedResults": "Detailed Results",
   "defectList": "Detected Defects List",
   "confidence": "Confidence",
   "generateReport": "Generate Report"
  },
  "newAnalysis": "New Analysis"
 },
 "defects": {
  "crack": "Crack",
  "cracks": "Cracks",
  "corrosion": "Corrosion",
  "exposedBars": "Exposed Reinforcement Bars",
  "dampness": "Dampness",
  "mould": "Mould"
 },
 "severity": {
  "high": "High",
  "medium": "Medium",
  "low": "Low"
 "status": {
  "active": "Active",
  "completed": "Completed",
  "pending": "Pending"
 },
 "months": {
  "jan": "January",
  "feb": "February",
  "mar": "March",
  "apr": "April",
  "may": "May",
  "jun": "June",
  "jul": "July",
  "aug": "August",
  "sep": "September",
  "oct": "October",
  "nov": "November",
  "dec": "December"
}
}
```

1. App.js

```
import React from 'react';
import { BrowserRouter as Router, Routes, Route, Navigate } from 'react-router-
dom';
import { ThemeProvider, createTheme, CssBaseline } from '@mui/material';
import { I18nextProvider } from 'react-i18next';
import i18n from './utils/i18n';
import rtlPlugin from 'stylis-plugin-rtl';
import { CacheProvider } from '@emotion/react';
import createCache from '@emotion/cache';
import { prefixer } from 'stylis';
// Pages
import Home from './pages/Home';
import Login from './pages/Login';
import Register from './pages/Register';
import Dashboard from './pages/Dashboard';
import Analysis from './pages/Analysis';
import Reports from './pages/Reports';
import NotFound from './pages/NotFound';
// Components
import Layout from './components/common/Layout';
// Create rtl cache
const cacheRtl = createCache({
 key: 'muirtl',
 stylisPlugins: [prefixer, rtlPlugin],
});
// Create Itr cache
const cacheLtr = createCache({
 key: 'muiltr',
 stylisPlugins: [prefixer],
});
const App = () => {
 const direction = i18n.language === 'ar' ? 'rtl' : 'ltr';
 const theme = createTheme({
  direction,
  palette: {
   primary: {
    main: '#1976d2',
   },
   secondary: {
    main: '#f50057',
```

```
},
 },
 typography: {
  fontFamily: direction === 'rtl'
   ? "Tajawal", "Roboto", "Helvetica", "Arial", sans-serif'
   : "Roboto", "Helvetica", "Arial", sans-serif',
},
});
const isAuthenticated = () => {
 return localStorage.getItem('isAuthenticated') === 'true';
};
const ProtectedRoute = ({ children }) => {
 if (!isAuthenticated()) {
  return <Navigate to="/login" />;
 }
 return children;
};
return (
 <CacheProvider value={direction === 'rtl' ? cacheRtl : cacheLtr}>
  <ThemeProvider theme={theme}>
   <CssBaseline />
   <I18nextProvider i18n={i18n}>
    <Router>
     <Layout>
      <Routes>
       <Route path="/" element={<Home />} />
       <Route path="/login" element={<Login />} />
        <Route path="/register" element={<Register />} />
       <Route
        path="/dashboard"
        element={
          <ProtectedRoute>
           <Dashboard />
          </ProtectedRoute>
        }
       />
       <Route
         path="/analysis"
        element={
          <ProtectedRoute>
           <Analysis />
          </ProtectedRoute>
        }
       />
        <Route
         path="/reports"
        element={
          <ProtectedRoute>
           <Reports />
```

2. i18n.js

```
import i18n from 'i18next';
import { initReactI18next } from 'react-i18next';
import LanguageDetector from 'i18next-browser-languagedetector';
import Backend from 'i18next-http-backend';
i18n
 .use(Backend)
 .use(LanguageDetector)
 .use(initReactI18next)
 .init({
  fallbackLng: 'ar',
  debug: process.env.NODE_ENV === 'development',
  interpolation: {
   escapeValue: false,
  },
  backend: {
   loadPath: '/locales/{{lng}}/translation.json',
  },
  detection: {
   order: ['localStorage', 'navigator'],
   caches: ['localStorage'],
 },
});
export default i18n;
```

3. Layout.js

```
import React, { useState } from 'react';
import {
  AppBar,
```

```
Toolbar,
 Typography,
 Button,
 IconButton,
 Drawer,
 List,
 ListItem,
 ListItemIcon,
 ListItemText,
 Box.
 Container,
 Menu,
 MenuItem,
 Divider,
 useMediaQuery,
 useTheme
} from '@mui/material';
import {
 Menu as MenuIcon,
 Home as HomeIcon,
 Dashboard as Dashboard Icon.
 Image as ImageIcon,
 Description as DescriptionIcon,
 Folder as FolderIcon.
 Person as PersonIcon,
 Logout as LogoutIcon,
 Translate as TranslateIcon
} from '@mui/icons-material';
import { Link as RouterLink, useNavigate, useLocation } from 'react-router-dom';
import { useTranslation } from 'react-i18next';
const Layout = ({ children }) => {
 const { t, i18n } = useTranslation();
 const navigate = useNavigate();
 const location = useLocation();
 const theme = useTheme();
 const isMobile = useMediaQuery(theme.breakpoints.down('md'));
 const [drawerOpen, setDrawerOpen] = useState(false);
 const [languageMenu, setLanguageMenu] = useState(null);
 const isAuthenticated = localStorage.getItem('isAuthenticated') === 'true';
 const handleDrawerToggle = () => {
  setDrawerOpen(!drawerOpen);
};
 const handleLanguageMenuOpen = (event) => {
  setLanguageMenu(event.currentTarget);
};
 const handleLanguageMenuClose = () => {
```

```
setLanguageMenu(null);
};
 const changeLanguage = (Ing) => {
  i18n.changeLanguage(lng);
  handleLanguageMenuClose();
};
 const handleLogout = () => {
  localStorage.removeItem('isAuthenticated');
  navigate('/login');
};
 const menuItems = [
  { text: t('nav.home'), icon: <HomeIcon />, path: '/' },
  { text: t('nav.dashboard'), icon: < DashboardIcon />, path: '/dashboard', auth:
true },
  { text: t('nav.analysis'), icon: < ImageIcon />, path: '/analysis', auth: true },
  { text: t('nav.reports'), icon: < DescriptionIcon />, path: '/reports', auth: true },
  { text: t('nav.projects'), icon: <FolderIcon />, path: '/projects', auth: true },
  { text: t('nav.profile'), icon: <PersonIcon />, path: '/profile', auth: true }
];
 const drawer = (
  <Box sx={{ width: 250 }} role="presentation" onClick={handleDrawerToggle}>
   <List>
    {menuItems.map((item) => (
     (!item.auth | | (item.auth && isAuthenticated)) && (
      <ListItem
       button
       key={item.text}
       component={RouterLink}
       to={item.path}
       selected={location.pathname === item.path}
       <ListItemIcon>{item.icon}</ListItemIcon>
       < ListItemText primary={item.text} />
      </ListItem>
     )
    ))}
   </List>
   {isAuthenticated && (
    <>
     <Divider />
     <List>
      <ListItem button onClick={handleLogout}>
       <ListItemIcon><LogoutIcon /></ListItemIcon>
       <ListItemText primary={t('nav.logout')} />
      </ListItem>
     </List>
    </>
   )}
```

```
</Box>
);
return (
 <Box sx={{ display: 'flex', flexDirection: 'column', minHeight: '100vh' }}>
  <Toolbar>
    {isAuthenticated && (
     <IconButton
      color="inherit"
      aria-label="open drawer"
      edge="start"
      onClick={handleDrawerToggle}
      sx={{ mr: 2 }}
      <MenuIcon/>
     </IconButton>
    )}
    < Typography
     variant="h6"
     component={RouterLink}
     to="/"
     SX={{
      flexGrow: 1,
      textDecoration: 'none',
      color: 'inherit',
      display: 'flex',
      alignItems: 'center'
     }}
     {t('app.title')}
    </Typography>
    {!isMobile && (
     <Box sx={{ display: 'flex' }}>
      <Button
       color="inherit"
       component={RouterLink}
       to="/"
       sx = \{\{ mx; 1 \}\}
       {t('nav.home')}
      </Button>
      {isAuthenticated?(
       <>
        <Button
         color="inherit"
          component={RouterLink}
         to="/dashboard"
         sx={{ mx: 1 }}
```

```
{t('nav.dashboard')}
    </Button>
    <Button
     color="inherit"
     component={RouterLink}
     to="/analysis"
     sx={{ mx: 1 }}
     {t('nav.analysis')}
    </Button>
    <Button
     color="inherit"
     component={RouterLink}
     to="/reports"
     sx={{ mx: 1 }}
    >
     {t('nav.reports')}
    </Button>
   </>
  ):(
   <>
    <Button
     color="inherit"
     component={RouterLink}
     to="/login"
     sx={{ mx: 1 }}
     {t('nav.login')}
    </Button>
    <Button
     color="inherit"
     component={RouterLink}
     to="/register"
     sx={{ mx: 1 }}
     {t('nav.register')}
    </Button>
   </>
  )}
 </Box>
)}
<IconButton
 color="inherit"
 onClick={handleLanguageMenuOpen}
 aria-controls="language-menu"
 aria-haspopup="true"
 <TranslateIcon />
</IconButton>
```

```
<Menu
    id="language-menu"
    anchorEl={languageMenu}
    keepMounted
    open={Boolean(languageMenu)}
    onClose={handleLanguageMenuClose}
    <MenuItem onClick={() => changeLanguage('ar')}>
                                                           </MenuItem>
    <MenuItem onClick={() => changeLanguage('en')}>English</MenuItem>
   </Menu>
   {isAuthenticated &&!isMobile && (
     color="inherit"
     onClick={handleLogout}
     startIcon={<LogoutIcon />}
     sx={{ ml: 1 }}
     {t('nav.logout')}
    </Button>
   )}
  </Toolbar>
 </AppBar>
 <Drawer
  anchor={i18n.language === 'ar' ? 'right' : 'left'}
  open={drawerOpen}
  onClose={handleDrawerToggle}
  {drawer}
 </Drawer>
 <Box component="main" sx={{ flexGrow: 1 }}>
  {children}
 </Box>
 <Box
  component="footer"
  SX = \{\{
   py: 3,
   px: 2,
   mt: 'auto',
   backgroundColor: (theme) => theme.palette.grey[200]
  }}
  <Container maxWidth="lq">
   <Typography variant="body2" color="text.secondary" align="center">
    © {new Date().getFullYear()} {t('app.title')}
   </Typography>
  </Container>
 </Box>
</Box>
```

```
);
};
export default Layout;
```

(Reports.js)

```
import React, { useState } from 'react';
import {
 Container,
 Typography,
 Paper,
 Box,
 Button,
 Grid,
 Card,
 CardContent,
 CardActions,
 Table,
 TableBody,
 TableCell,
 TableContainer,
 TableHead,
 TableRow,
 Chip,
 TextField,
 InputAdornment,
 IconButton,
 Dialog,
 DialogTitle,
 DialogContent,
 DialogActions,
 Tabs,
 Tab
} from '@mui/material';
import {
 Search as SearchIcon,
 GetApp as DownloadIcon,
 Share as ShareIcon,
 Delete as DeleteIcon,
 Visibility as ViewIcon,
 Add as AddIcon,
 FilterList as FilterIcon
} from '@mui/icons-material';
import { useTranslation } from 'react-i18next';
const Reports = () => {
 const { t } = useTranslation();
 const [searchTerm, setSearchTerm] = useState(");
```

```
const [tabValue, setTabValue] = useState(0);
const [openDialog, setOpenDialog] = useState(false);
const [selectedReport, setSelectedReport] = useState(null);
// Sample data for reports
const reports = [
 {
  id: 1,
  title: '
  date: '2025-04-15',
  project: ' -
  defects: 12,
  status: 'completed'
 },
 {
  id: 2,
  title: ' -
  date: '2025-04-10',
  project: ' -
  defects: 8,
  status: 'completed'
 },
 {
  id: 3,
  title: '
  date: '2025-04-05',
  project: '
  defects: 15,
  status: 'completed'
 },
 {
  id: 4,
  title: '
  date: '2025-03-25',
  project: ' -
  defects: 5,
  status: 'completed'
 },
 {
  id: 5,
  title: '
  date: '2025-03-15',
  project: ' -
  defects: 3,
  status: 'completed'
 }
];
const handleTabChange = (event, newValue) => {
 setTabValue(newValue);
};
```

```
const handleSearchChange = (event) => {
  setSearchTerm(event.target.value);
};
 const handleViewReport = (report) => {
  setSelectedReport(report);
 setOpenDialog(true);
};
 const handleCloseDialog = () => {
  setOpenDialog(false);
};
 const filteredReports = reports.filter(report =>
  report.title.toLowerCase().includes(searchTerm.toLowerCase())
  report.project.toLowerCase().includes(searchTerm.toLowerCase())
);
 return (
  <Container maxWidth="lg" sx={{ mt: 4, mb: 4 }}>
   <Typography variant="h4" component="h1" gutterBottom>
    {t('reports.title')}
   </Typography>
   <Paper sx={{ p: 2, mb: 3 }}>
    <Box sx={{ display: 'flex', justifyContent: 'space-between', alignItems: 'center',
mb: 2 }}>
     <TextField
      placeholder={t('reports.search')}
      variant="outlined"
      size="small"
      value={searchTerm}
      onChange={handleSearchChange}
      InputProps={{
       startAdornment: (
        <InputAdornment position="start">
         <SearchIcon />
        </InputAdornment>
       ),
      }}
      sx={{ width: 300 }}
     />
     <Box>
      <Button
       variant="outlined"
       startIcon={<FilterIcon />}
       sx={{ mr: 1 }}
       {t('reports.filter')}
      </Button>
      <Button
       variant="contained"
```

```
startIcon={<AddIcon />}
   {t('reports.createNew')}
  </Button>
 </Box>
</Box>
<Tabs value={tabValue} onChange={handleTabChange} sx={{ mb: 2 }}>
 <Tab label={t('reports.tabs.all')} />
 <Tab |abel={t('reports.tabs.recent')} />
 <Tab label={t('reports.tabs.shared')} />
</Tabs>
<TableContainer>
 <Table>
  <TableHead>
   <TableRow>
    <TableCell>{t('reports.table.title')}</TableCell>
    <TableCell>{t('reports.table.project')}</TableCell>
    <TableCell>{t('reports.table.date')}</TableCell>
    <TableCell>{t('reports.table.defects')}</TableCell>
    <TableCell>{t('reports.table.status')}</TableCell>
    <TableCell>{t('reports.table.actions')}</TableCell>
   </TableRow>
  </TableHead>
  <TableBody>
   {filteredReports.map((report) => (
    <TableRow key={report.id}>
     <TableCell>{report.title}</TableCell>
     <TableCell>{report.project}</TableCell>
     <TableCell>{report.date}</TableCell>
     <TableCell>{report.defects}</TableCell>
     <TableCell>
      <Chip
       label={t(`status.${report.status}`)}
       color={report.status === 'completed' ? 'success' : 'warning'}
       size="small"
      />
     </TableCell>
     <TableCell>
      < IconButton size="small" onClick={() => handleViewReport(report)}>
       <ViewIcon />
      </IconButton>
      <IconButton size="small">
       <DownloadIcon />
      </IconButton>
      <IconButton size="small">
       <ShareIcon />
      </IconButton>
      <IconButton size="small" color="error">
       <DeleteIcon />
      </IconButton>
```

```
</TableCell>
        </TableRow>
       ))}
      </TableBody>
     </Table>
    </TableContainer>
   </Paper>
   <Typography variant="h5" component="h2" gutterBottom>
    {t('reports.recentReports')}
   </Typography>
   < Grid container spacing = {3}>
    {reports.slice(0, 3).map((report) => (
     <Grid item xs={12} md={4} key={report.id}>
      <Card>
       <CardContent>
        <Typography variant="h6" component="h3" gutterBottom>
         {report.title}
        </Typography>
        <Typography variant="body2" color="textSecondary" gutterBottom>
         {report.project}
        </Typography>
        <Typography variant="body2">
         {t('reports.date')}: {report.date}
        </Typography>
        <Typography variant="body2">
         {t('reports.defectsFound')}: {report.defects}
        </Typography>
       </CardContent>
       <CardActions>
        <Button size="small" startIcon={<ViewIcon />} onClick={() =>
handleViewReport(report)}>
         {t('reports.view')}
        </Button>
        <Button size="small" startIcon={<DownloadIcon />}>
         {t('reports.download')}
        </Button>
        <Button size="small" startIcon={<ShareIcon />}>
         {t('reports.share')}
        </Button>
       </CardActions>
      </Card>
     </Grid>
    ))}
   </Grid>
   <Dialog
    open={openDialog}
    onClose={handleCloseDialog}
    maxWidth="md"
    fullWidth
```

```
{selectedReport && (
  <DialogTitle>{selectedReport.title}</DialogTitle>
  < DialogContent dividers>
   <Typography variant="subtitle1" gutterBottom>
    {t('reports.project')}: {selectedReport.project}
   </Typography>
   <Typography variant="subtitle2" gutterBottom>
    {t('reports.date')}: {selectedReport.date}
   </Typography>
   <Typography variant="subtitle2" gutterBottom>
    {t('reports.defectsFound')}: {selectedReport.defects}
   </Typography>
   <Box sx={{ mt: 3 }}>
    <Typography variant="h6" gutterBottom>
     {t('reports.summary')}
    </Typography>
    <Typography variant="body1" paragraph>
     {t('reports.sampleContent.summary')}
    </Typography>
   </Box>
   <Box sx={{ mt: 3 }}>
    <Typography variant="h6" gutterBottom>
     {t('reports.defectDetails')}
    </Typography>
    <Typography variant="body1" paragraph>
     {t('reports.sampleContent.defectDetails')}
    </Typography>
    <TableContainer component={Paper} sx={{ mt: 2 }}>
     <Table size="small">
      <TableHead>
       <TableRow>
        <TableCell>{t('reports.defectTable.type')}</TableCell>
        <TableCell>{t('reports.defectTable.location')}</TableCell>
        <TableCell>{t('reports.defectTable.severity')}</TableCell>
        <TableCell>{t('reports.defectTable.recommendation')}</TableCell>
       </TableRow>
      </TableHead>
      <TableBody>
       <TableRow>
        <TableCell>{t('defects.crack')}</TableCell>
        <TableCell>{t('reports.sampleContent.locations.wall')}</TableCell>
        <TableCell>
         <Chip
          label={t('severity.high')}
          color="error"
          size="small"
         />
```

```
</TableCell>
            <TableCell>{t('reports.sampleContent.recommendations.immediate')}
</TableCell>
           </TableRow>
           <TableRow>
            <TableCell>{t('defects.crack')}</TableCell>
            <TableCell>{t('reports.sampleContent.locations.ceiling')}</TableCell>
            <TableCell>
              <Chip
              label={t('severity.medium')}
               color="warning"
              size="small"
             />
            </TableCell>
            <TableCell>{t('reports.sampleContent.recommendations.repair')}</
TableCell>
           </TableRow>
           <TableRow>
            <TableCell>{t('defects.corrosion')}</TableCell>
            <TableCell>{t('reports.sampleContent.locations.column')}</
TableCell>
            <TableCell>
              <Chip
              label={t('severity.high')}
              color="error"
              size="small"
             />
            </TableCell>
            <TableCell>{t('reports.sampleContent.recommendations.immediate')}
</TableCell>
           </TableRow>
          </TableBody>
         </Table>
        </TableContainer>
       </Box>
       <Box sx={{ mt: 3 }}>
        <Typography variant="h6" gutterBottom>
         {t('reports.conclusion')}
        </Typography>
        <Typography variant="body1" paragraph>
         {t('reports.sampleContent.conclusion')}
        </Typography>
       </Box>
      </DialogContent>
      <DialogActions>
       <Button onClick={handleCloseDialog}>
        {t('reports.close')}
       </Button>
       <Button variant="contained" startIcon={<DownloadIcon />}>
        {t('reports.download')}
       </Button>
```

```
</DialogActions>
    </></>
    )}
    </Dialog>
    </Container>
    );
};
export default Reports;
```

(ar/translation.json)

```
"reports": {
"title": "
"search": "
"filter": "
"createNew": "
"tabs": {
 "all": "
 "recent": "
 "shared": "
},
"table": {
 "title": "
 "project": "
 "date": "
 "defects": "
 "status": "
 "actions": "
},
"recentReports": "
"date": "
"defectsFound": "
"view": " ",
"download": "
"share": "
"project": "
"summary": "
"defectDetails": "
"conclusion": "
"close": "
"defectTable": {
 "type": "
 "location": "
```

```
"severity": " ",
  "recommendation": "
},
 "sampleContent": {
 "summary":
  "defectDetails": "
  "conclusion": "
  "locations": {
   "wall": "
   "ceiling": "
   "column": "
  "recommendations": {
   "immediate": "
   "repair": "
   "monitor": "
 }
}
}
```

(en/translation.json)

```
"reports": {
"title": "Reports",
"search": "Search reports",
"filter": "Filter",
"createNew": "Create New Report",
"tabs": {
 "all": "All Reports",
 "recent": "Recent Reports",
 "shared": "Shared Reports"
},
"table": {
 "title": "Report Title",
 "project": "Project",
 "date": "Date",
 "defects": "Defects",
 "status": "Status",
 "actions": "Actions"
"recentReports": "Recent Reports",
"date": "Date",
"defectsFound": "Defects Found",
"view": "View",
"download": "Download",
"share": "Share",
```

```
"project": "Project",
 "summary": "Report Summary",
 "defectDetails": "Defect Details",
 "conclusion": "Conclusion & Recommendations",
 "close": "Close".
 "defectTable": {
  "type": "Defect Type",
  "location": "Location",
  "severity": "Severity",
  "recommendation": "Recommendation"
 },
 "sampleContent": {
  "summary": "A comprehensive inspection of the building was conducted and
several structural defects requiring attention were discovered. AI technologies
were used to analyze images and detect defects with high precision.",
  "defectDetails": "Below are the details of the detected defects and repair
recommendations:".
  "conclusion":
"Based on the analysis, we recommend immediate repairs for high severity defects,
and scheduling repairs for medium severity defects within the next three months.
We also recommend a follow-up inspection after repairs to ensure their
effectiveness.",
  "locations": {
   "wall": "North Wall - Ground Floor",
   "ceiling": "Main Room Ceiling - First Floor",
   "column": "Main Column - Entrance"
  },
  "recommendations": {
   "immediate": "Immediate repair required",
   "repair": "Repair within 3 months",
   "monitor": "Periodic monitoring"
 }
}
}
```