**LoanReport.cshtml**

@model List<BankLoanProject.Models.LoanReportViewModel>

@{

var role = Context.Session.GetString("Role");

Layout = null;

}

<div class="container mt-4 p-4 bg-light rounded shadow">

<h2 class="text-center text-black">Loan Report</h2>

<!-- Button Group (Export & Filter) -->

<div class="d-flex justify-content-between mb-4">

<button class="btn btn-secondary" id="btnExport">

<i class="fas fa-file-export"></i> Export

</button>

<!-- Filter Dropdown -->

<div class="dropdown">

<button class="btn btn-primary dropdown-toggle" type="button" data-bs-toggle="dropdown">

<i class="fas fa-filter"></i> Filter

</button>

<div class="dropdown-menu p-3">

<label class="fw-bold">By Loan Type:</label>

<select id="loanTypeFilter" class="form-control mb-2">

<**option** **value**="">All</**option**>

<**option** **value**="Home">Home</**option**>

<**option** **value**="Vehicle">Vehicle</**option**>

<**option** **value**="Personal">Personal</**option**>

</select>

<label class="fw-bold">By Application Date:</label>

<input type="date" id="applicationDateFilter" class="form-control mb-2">

<label class="fw-bold">By Status:</label>

<select id="statusFilter" class="form-control mb-2">

<**option** **value**="">All</**option**>

<**option** **value**="Approved">Approved</**option**>

<**option** **value**="Pending">Pending</**option**>

</select>

<button class="btn btn-success mt-2 w-100" id="btnApplyFilter">Apply</button>

<button class="btn btn-danger mt-2 w-100" id="btnClearFilter">Clear</button>

</div>

</div>

</div>

<!-- Loan Report Table -->

<div class="table-responsive">

<table class="table table-bordered table-hover table-striped shadow-sm" id="loanReportTable">

<thead class="table-primary">

<tr>

@if (role == "Admin")

{

@\* <th>Application ID</th> \*@

<th>Customer ID</th>

<th>Customer Name</th>

}

<th>Product Type</th>

<th>Product Name</th>

<th>Loan Amount</th>

<th>Application Date</th>

<th>Status</th>

</tr>

</thead>

<tbody>

@foreach (var report in Model)

{

<tr>

@if(role=="Admin"){

@\* <td>@report.ApplicationId</td> \*@

<td>@report.CustomerId</td>

<td>@report.CustomerName</td>

}

<td>@report.ProductType</td>

<td>@report.ProductName</td>

<td>@report.LoanAmount.ToString("C")</td>

<td>@report.ApplicationDate.ToString("dd-MM-yyyy")</td>

<td class="fw-bold @(report.ApprovalStatus == "Approved" ? "text-success" : "text-danger")">@report.ApprovalStatus</td>

</tr>

}

</tbody>

</table>

</div>

</div>

<!-- jQuery for Export & Filter Functionality -->

@section Scripts{

<script>

$(document).ready(function () {

// Export Table as CSV

$("#btnExport").click(function () {

let csv = [];

let rows = document.querySelectorAll("#loanReportTable tr");

rows.forEach(row => {

let cols = row.querySelectorAll("td, th");

let rowData = [];

cols.forEach(col => rowData.push(col.innerText));

csv.push(rowData.join(","));

});

let csvContent = "data:text/csv;charset=utf-8," + csv.join("\n");

let encodedUri = encodeURI(csvContent);

let link = document.createElement("a");

link.setAttribute("href", encodedUri);

let timestamp = new Date().toISOString().replace(/[-:.]/g, "");

link.setAttribute("download", `LoanReport\_${timestamp}.csv`);

document.body.appendChild(link);

link.click();

});

// Apply Filters

$("#btnApplyFilter").click(function () {

let selectedLoanType = $("#loanTypeFilter").val().toLowerCase();

let selectedStatus = $("#statusFilter").val().toLowerCase();

let applicationDate = $("#applicationDateFilter").val(); // Date selected by the user

$("#loanReportTable tbody tr").each(function () {

let loanType = $(this).find("td:eq(2)").text().trim().toLowerCase();

let status = $(this).find("td:eq(5)").text().trim().toLowerCase();

let rowApplicationDate = $(this).find("td:eq(4)").text().trim(); // Date from table (dd-MM-yyyy)

let showRow = true;

// Convert table date (dd-MM-yyyy) to yyyy-MM-dd for comparison

let dateParts = rowApplicationDate.split("-");

let formattedRowDate = dateParts[2] + "-" + dateParts[1] + "-" + dateParts[0]; // Convert dd-MM-yyyy → yyyy-MM-dd

if (selectedLoanType && loanType !== selectedLoanType) {

showRow = false;

}

if (selectedStatus && status !== selectedStatus) {

showRow = false;

}

if (applicationDate && applicationDate !== formattedRowDate) {

showRow = false;

}

$(this).toggle(showRow);

});

});

// Clear Filters

$("#btnClearFilter").click(function () {

$("#loanTypeFilter").val("");

$("#statusFilter").val("");

$("#applicationDateFilter").val("");

$("#loanReportTable tbody tr").show();

});

});

</script>

}

**OutstandingReport.cshtml**

@model List<BankLoanProject.Models.OutstandingReportViewModel>

@{

var role = Context.Session.GetString("Role");

Layout = null;

}

<div class="container mt-4 p-4 bg-light rounded shadow">

<h2 class="text-center text-black">Outstanding Loans Report</h2>

<!-- Button Group (Export & Filter) -->

<div class="d-flex justify-content-between mb-4">

<button class="btn btn-secondary" id="btnExport">

<i class="fas fa-file-export"></i> Export

</button>

<!-- Filter Dropdown -->

<div class="dropdown">

<button class="btn btn-primary dropdown-toggle" type="button" data-bs-toggle="dropdown">

<i class="fas fa-filter"></i> Filter

</button>

<div class="dropdown-menu p-3">

<label class="fw-bold">By Loan Type:</label>

<select id="loanTypeFilter" class="form-control mb-2">

<**option** **value**="">All</**option**>

<**option** **value**="Home">Home</**option**>

<**option** **value**="Vehicle">Vehicle</**option**>

<**option** **value**="Personal">Personal</**option**>

</select>

<button class="btn btn-success mt-2 w-100" id="btnApplyFilter">Apply</button>

<button class="btn btn-danger mt-2 w-100" id="btnClearFilter">Clear</button>

</div>

</div>

</div>

<!-- Outstanding Loans Report Table -->

<div class="table-responsive">

<table class="table table-bordered table-hover table-striped shadow-sm" id="outstandingReportTable">

<thead class="table-primary">

<tr>

<th>Loan ID</th>

@if (role == "Admin")

{

<th>Customer ID</th>

<th>Customer Name</th>

}

<th>Product Type</th>

<th>Product Name</th>

<th>Loan Amount</th>

<th>Outstanding Balance</th>

</tr>

</thead>

<tbody>

@foreach (var report in Model)

{

<tr>

<td>@report.LoanId</td>

@if (role == "Admin"){

<td>@report.CustomerId</td>

<td>@report.CustomerName</td>

}

<td>@report.ProductType</td>

<td>@report.ProductName</td>

<td>@report.LoanAmount.ToString("C")</td>

<td>@report.OutstandingBalance.ToString("C")</td>

</tr>

}

</tbody>

</table>

</div>

</div>

@section Scripts{

<script>

$(document).ready(function () {

// Export Table as CSV

$("#btnExport").click(function () {

let csv = [];

let rows = document.querySelectorAll("#outstandingReportTable tr");

rows.forEach(row => {

let cols = row.querySelectorAll("td, th");

let rowData = [];

cols.forEach(col => rowData.push(col.innerText));

csv.push(rowData.join(","));

});

let csvContent = "data:text/csv;charset=utf-8," + csv.join("\n");

let encodedUri = encodeURI(csvContent);

let link = document.createElement("a");

link.setAttribute("href", encodedUri);

let timestamp = new Date().toISOString().replace(/[-:.]/g, "");

link.setAttribute("download", `OutstandingLoansReport\_${timestamp}.csv`);

document.body.appendChild(link);

link.click();

});

// Apply Filters (By Loan Type Only)

$("#btnApplyFilter").click(function () {

let selectedLoanType = $("#loanTypeFilter").val().toLowerCase();

$("#outstandingReportTable tbody tr").each(function () {

let loanType = $(this).find("td:eq(2)").text().trim().toLowerCase();

let showRow = true;

if (selectedLoanType && loanType !== selectedLoanType) {

showRow = false;

}

$(this).toggle(showRow);

});

});

// Clear Filters

$("#btnClearFilter").click(function () {

$("#loanTypeFilter").val("");

$("#outstandingReportTable tbody tr").show();

});

});

</script>

}

**RepaymentReport.cshtml**

@model List<BankLoanProject.Models.RepaymentReportViewModel>

@{

var role = Context.Session.GetString("Role");

Layout = null;

}

<div class="container mt-4 p-4 bg-light rounded shadow">

<h2 class="text-center text-black">Repayment Report</h2>

<!-- Button Group (Export & Filter) -->

<div class="d-flex justify-content-between mb-4">

<button class="btn btn-secondary" id="btnExport">

<i class="fas fa-file-export"></i> Export

</button>

<!-- Filter Dropdown -->

<div class="dropdown">

<button class="btn btn-primary dropdown-toggle" type="button" data-bs-toggle="dropdown">

<i class="fas fa-filter"></i> Filter

</button>

<div class="dropdown-menu p-3">

<label class="fw-bold">By Payment Date:</label>

<input type="date" id="paymentDateFilter" class="form-control mb-2">

<label class="fw-bold">By Status:</label>

<select id="statusFilter" class="form-control mb-2">

<**option** **value**="">All</**option**>

<**option** **value**="Pending">Pending</**option**>

<**option** **value**="Completed">Completed</**option**>

</select>

<button class="btn btn-success mt-2 w-100" id="btnApplyFilter">Apply</button>

<button class="btn btn-danger mt-2 w-100" id="btnClearFilter">Clear</button>

</div>

</div>

</div>

<!-- Repayment Report Table -->

<div class="table-responsive">

<table class="table table-bordered table-hover table-striped shadow-sm" id="repaymentReportTable">

<thead class="table-primary">

<tr>

<th>Repayment ID</th>

@if (role == "Admin")

{

<th>Customer ID</th>

<th>Customer Name</th>

}

<th>Loan ID</th>

<th>Amount Due</th>

<th>Due Date</th>

<th>Payment Date</th>

<th>Status</th>

</tr>

</thead>

<tbody>

@foreach (var report in Model)

{

<tr>

<td>@report.RepaymentId</td>

@if (role == "Admin"){

<td>@report.CustomerId</td>

<td>@report.CustomerName</td>

}

<td>@report.LoanId</td>

<td>@report.AmountDue.ToString("C")</td>

<td>@report.DueDate.ToString("dd/MM/yyyy")</td>

<td>@(report.PaymentDate.HasValue ? report.PaymentDate.Value.ToString("dd/MM/yyyy") : "Not Paid")</td>

<td class="fw-bold @(report.PaymentStatus == "Completed" ? "text-success" : "text-danger")">@report.PaymentStatus</td>

</tr>

}

</tbody>

</table>

</div>

</div>

@section Scripts{

<script>

$(document).ready(function () {

// Export Table as CSV

$("#btnExport").click(function () {

let csv = [];

let rows = document.querySelectorAll("#repaymentReportTable tr");

rows.forEach(row => {

let cols = row.querySelectorAll("td, th");

let rowData = [];

cols.forEach(col => rowData.push(col.innerText));

csv.push(rowData.join(","));

});

let csvContent = "data:text/csv;charset=utf-8," + csv.join("\n");

let encodedUri = encodeURI(csvContent);

let link = document.createElement("a");

link.setAttribute("href", encodedUri);

let timestamp = new Date().toISOString().replace(/[-:.]/g, "");

link.setAttribute("download", `RepaymentReport\_${timestamp}.csv`);

document.body.appendChild(link);

link.click();

});

// Apply Filters (By Payment Date & Status)

$("#btnApplyFilter").click(function () {

let selectedStatus = $("#statusFilter").val().toLowerCase();

let paymentDate = $("#paymentDateFilter").val(); // User-selected date

$("#repaymentReportTable tbody tr").each(function () {

let status = $(this).find("td:eq(5)").text().trim().toLowerCase();

let rowPaymentDate = $(this).find("td:eq(4)").text().trim(); // Table date (dd/MM/yyyy)

let showRow = true;

// Convert table date (dd/MM/yyyy) to yyyy-MM-dd for proper comparison

let dateParts = rowPaymentDate.split("/");

if (dateParts.length === 3) {

let formattedRowDate = `${dateParts[2]}-${dateParts[1]}-${dateParts[0]}`; // Convert dd/MM/yyyy → yyyy-MM-dd

if (paymentDate && paymentDate !== formattedRowDate) {

showRow = false;

}

}

if (selectedStatus && status !== selectedStatus) {

showRow = false;

}

$(this).toggle(showRow);

});

});

// Clear Filters

$("#btnClearFilter").click(function () {

$("#statusFilter").val("");

$("#paymentDateFilter").val("");

$("#repaymentReportTable tbody tr").show();

});

});

</script>

}

**Report.cshtml**

@{

ViewData["Title"] = "Reports";

}

<!-- Include Font Awesome for Icons -->

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">

<div class="container text-center mt-4">

<h2 class="mb-4 text-bold">Reports</h2>

<!-- Report Selection Buttons with Icons -->

<div class="mb-4">

<button class="btn btn-primary me-2" id="btnLoanReport">

<i class="fas fa-file-invoice-dollar"></i> Loan Report

</button>

<button class="btn btn-success me-2" id="btnRepaymentReport">

<i class="fas fa-receipt"></i> Repayment Report

</button>

<button class="btn btn-warning" id="btnOutstandingReport">

<i class="fas fa-money-bill-wave"></i> Outstanding Report

</button>

</div>

<!-- Dynamic Report Container -->

<div id="reportContainer"></div>

</div>

@section Scripts{

<script>

$(document).ready(function () {

$("#btnLoanReport").click(function () {

$("#reportContainer").load("/Report/LoanReport");

});

$("#btnRepaymentReport").click(function () {

$("#reportContainer").load("/Report/RepaymentReport");

});

$("#btnOutstandingReport").click(function () {

$("#reportContainer").load("/Report/OutstandingReport");

});

});

</script>

}