

Module Details		Learner's Details	
SECTOR:	ICT	Regno:	
SUB-SECTOR:	Information Technology (IT)	Class:	Level 6 IT (Year 1) .....
CERTIFICATE:	TVET Certificate VI in Information Technology	Trainer's Details	
Module (Code & Name):	ITLDF601 – Frontend development	Names:	SAFARI Cyprien
Competence:	Develop Frontend	Duration:	240min
Training Centre:	RP Karongi College	Date:	April 03, 2025
Type of evidence:	Performance evidence	Signature:	

### PROJECT BASED PRACTICAL ASSESSMENT /100 marks

#### Objectives

This practical assessment assesses students' ability to develop a frontend for a **Child's Day Care Management System** using React.js. The project should provide an intuitive interface for managing child registrations, attendance tracking, caregiver assignments, and progress monitoring.

#### Scenario

A **daycare center** wants to digitize its operations by implementing a **Child's Day Care Management System** that enables parents to register their children, book daycare sessions, and track daily activities. The system must allow admins to manage child records, assign caregivers, and monitor attendance.

#### General Requirements & Guidelines

- Students must work individually on the project.
- The project should be built using **React.js** with a proper component-based architecture.
- **React Router** must be implemented for navigation between pages.
- **Material UI** must be used for styling, including icons, tables, data tables (for automatic sorting, filtering, and pagination), and form components.
- **Recharts** should be used to display analytics, such as attendance tracking and caregiver performance.
- The UI should include both **Dark Mode and Light Mode**, with a toggle button in the header using a half-moon icon.
- Additionally, **Dark and Light buttons** should be placed in the aside section for mode selection.
- Data tables should include **View and Delete** action buttons for managing child and caregiver records.
- Forms with image upload must display a preview of the uploaded profile picture.
- Each section must include an **"Add New"** button for adding new children, caregivers, and daycare schedules.

- **Form validation must be implemented** to ensure data integrity and prevent empty or incorrect submissions.
- **Validation requirements:**
  - Fields should not be left empty.
  - Email fields must have a valid email format.
  - Password fields must include a minimum of 8 characters, at least one uppercase letter, one number, and one special character.
  - Phone number fields should accept only numeric values with a proper length constraint.
  - Image uploads should accept only specific file types (JPEG, PNG, etc.) and limit file size.

## Technical Requirements

1. **Routing:** React Router must be implemented with proper navigation between pages (e.g., Home, Children, Caregivers, Attendance, Admin Panel).
2. **Material UI:** Icons, tables, forms, and layout components should be used for consistency.
3. **Data Tables:** Sorting, filtering, and pagination should be handled automatically using Material UI for child and caregiver lists.
4. **Recharts:** Attendance trends, caregiver performance, and child activity reports should be displayed using charts.
5. **Dark/Light Mode:**
  - Toggle button (half-moon icon) in the header.
  - Separate Dark and Light buttons in the aside section.
6. **Table Actions:**
  - View button to open a modal or separate page displaying detailed child or caregiver information.
  - Delete button to remove a record with a confirmation prompt.
7. **Day Care Features:**
  - Parents should be able to register their children and book daycare slots.
  - Caregivers should be assigned to children based on availability.
  - Admins should be able to manage attendance and child progress.
8. **Admin Panel:**
  - Admins should be able to monitor caregiver efficiency and child activity reports.
  - View real-time analytics using Recharts.
9. **Registration Forms:**
  - Fields for child and caregiver registration.
  - Image upload with preview before submission.
  - Add New button to create new records.
  - **Form validation to prevent empty or incorrect data submission.**

## Assessment Checklist

Category	Criteria	Marks	Yes	No
<b>Project Structure &amp; UI</b>	Proper folder structure and component-based architecture	10		
	Responsive design implemented using Material UI	5		
	Dark and Light modes correctly toggle and persist	5		
<b>Routing &amp; Navigation</b>	Navigation bar correctly links to all required pages	5		
	React Router properly handles routing between pages	5		
	Dynamic route handling for viewing child details	5		
<b>Data Management &amp; Tables</b>	Data tables support sorting, filtering, and pagination	10		
	View button displays detailed child/caregiver info	5		
	Delete button prompts confirmation before removal	5		
<b>Day Care Features</b>	Parents can register and book daycare slots	5		
	Caregivers can be assigned to children	5		
	Admin can add, edit, and delete children/caregivers	5		
	Attendance tracking displayed using Recharts	5		
<b>Forms &amp; Image Upload</b>	Registration form includes all required fields	5		
	Image upload feature shows a preview before submission	5		
	"Add New" button successfully adds new entries	5		
	Form validation implemented to prevent incorrect input	5		
	Email validation ensures proper format	5		
	Password validation follows security criteria	5		
<b>Code Quality &amp; Submission</b>	Well-structured and readable code	5		
	Proper use of React.js best practices	5		
<b>Total Marks</b>	<b>100</b>			