# Replacement Assignment

This project consists of React components for managing personal replacement assignments while being absent in a web application.

## Dependencies

### React

This project relies on React for building user interfaces. React is a JavaScript library for building user interfaces, maintained by Facebook.

### React Router DOM

The project uses React Router DOM for handling routing in the React application. It enables navigation between different components based on the URL.

### Axios

Axios is used for making HTTP requests to the backend API. It provides an easy-to-use API that works both in the browser and Node.js environments.

### React Icons

React Icons provides a set of SVG icons as React components. It's used in this project to render icons for visual representation.

### SweetAlert2

SweetAlert2 is a beautiful, responsive, customizable, accessible replacement for JavaScript's popup boxes. It's used in this project for displaying alert messages.

### Moment.js

Moment.js is a library for parsing, validating, manipulating, and formatting dates in JavaScript. It's used in this project for date manipulation and formatting.

### React Hook Form

React Hook Form is a library for managing form state and validation in React applications. It's used in this project for form handling.

### Prop Types

Prop Types is used for typechecking props passed to React components. It helps catch bugs by validating the data types of props.

### AWS Amplify

AWS Amplify is a set of tools and services for building secure, scalable full-stack applications. It's used in this project for authentication and authorization.

### Other Dependencies

@aws-amplify/auth: AWS Amplify authentication module.

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# ReplacementAssignment Component

The ReplacementAssignment component is responsible for displaying and managing replacement assignments. It fetches the current replacement information and renders the ReplacementExportableComponent and ReplacementAssignmentTable accordingly.

import React from 'react';

import ReplacementAssignmentTable from './replacement-assignment-table';

import ReplacementExportableComponent from './replacement-exportable';

const ReplacementAssignment = () => {

// Component logic...

};

export default ReplacementAssignment;

# ReplacementExportableComponent Component

The ReplacementExportableComponent component allows users to select a replacement from a dropdown list and assign replacement dates. It also handles form validation and submission of replacement assignments.

Props:

**initDate**: Initial date for replacement assignment.

**endDate**: End date for replacement assignment.

**current**: Current replacement information.

import React from 'react';

import ReplacementComponent from './replacement-dc';

import PropTypes from 'prop-types';

const ReplacementExportableComponent = ({ initDate, endDate, current }) => {

// Component logic...

};

ReplacementExportableComponent.propTypes = {

initDate: PropTypes.string,

endDate: PropTypes.string,

current: PropTypes.object,

};

export default ReplacementExportableComponent;

# ReplacementComponent Component

The ReplacementComponent component renders the form fields for selecting a replacement and specifying replacement dates. It handles form input and validation.

Props:

**register**: Function for registering form inputs.

**team**: Array of team members for replacement selection.

**replacement**: Object containing replacement information.

**setReplacement**: Function for updating replacement information.

import React from 'react';

import PropTypes from 'prop-types';

const ReplacementComponent = ({ register, team, replacement, setReplacement }) => {

// Component logic...

};

ReplacementComponent.propTypes = {

register: PropTypes.func.isRequired,

team: PropTypes.array.isRequired,

replacement: PropTypes.object.isRequired,

setReplacement: PropTypes.func.isRequired,

};

export default ReplacementComponent;

# ReplacementAssignmentTable Component

The ReplacementAssignmentTable component displays the current replacement assignment information in a table format.

Props:

**current**: Current replacement information.

import React from 'react';

import PropTypes from 'prop-types';

const ReplacementAssignmentTable = ({ current }) => {

// Component logic...

};

ReplacementAssignmentTable.propTypes = {

current: PropTypes.object,

};

export default ReplacementAssignmentTable;

# ReplacementsService

The ReplacementsService provides methods for interacting with the backend API to fetch and save replacement data.

Methods:

**getReplacementPrompt**: Fetches possible replacement coworkers from the backend.

**saveReplacement**: Saves a replacement assignment to the backend.

**getCurrentReplacement**: Fetches the current replacement assignment from the backend.

**hasSubordinates**: Checks if the user has subordinates for display purposes (if false, employee shouldn’t be replaceable).