App
app: Flask
config: dict

index()
login() |
register_patient()
register_employee()

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LoginForm

email: StringField
password:PasswordField

validate_on_submit()

System

forms: Form[]

addForm(form): void

Form

name: string
id: string
validate(): boolean
submit(event): void

PatientForm

name: string
age: number
validate(): boolean

User
email: str
password: str
authenticate()

EmployeeForm

name: StringField
position: StringField

validate_on_submit()

Class Diagram Components

System Class

Represents the overall Health Care Management System.

Attributes:

forms: Form[]: A collection of form objects (e.g., login form, patient registration form, employee registration form).

Methods:

addForm(form: Form): void: Adds a form to the system.

Form Class

Represents a generic form in the system.

Attributes:

id: string: The unique identifier of the form.

name: string: The name of the form.

Methods:

validate(): boolean: Validates the form inputs (common validation logic).

submit(event: Event): void: Handles the form submission (common submission logic).

LoginForm Class

Inherits from the Form class and represents the login form.

Additional Attributes:

email: string: The email input field.

password: string: The password input field.

Additional Methods:

validate(): boolean: Specific validation logic for the login form.

submit(event: Event): void: Specific submission logic for the login form.

PatientForm Class

Inherits from the Form class and represents the patient registration form

Additional Attributes:

name: string: The patient's name input field.

age: number: The patient's age input field.

Additional Methods:

validate(): boolean: Specific validation logic for the patient registration form.

submit(event: Event): void: Specific submission logic for the patient registration form.

EmployeeForm Class

Inherits from the Form class and represents the employee registration form.

Additional Attributes:

name: string: The employee's name input field.

position: string: The employee's position input field.

Additional Methods:

validate(): boolean: Specific validation logic for the employee registration form.

submit(event: Event): void: Specific submission logic for the employee registration form.

Relationships:

System Class contains a collection of **Form** objects, representing the various forms in the system.

Form Class serves as the base class for all forms, with common attributes and methods.

LoginForm, **PatientForm**, and **EmployeeForm** are subclasses of **Form**, each with additional specific attributes and methods.

The relationships between the classes are represented by associations and inheritance, illustrating how the specific forms (LoginForm, PatientForm, and EmployeeForm) extend the generic Form class.