Vaccination Schedule System

Design and implement a system for Patients to maintain vaccination schedule. It will be used by a user to add a patient, add vaccination given details and view vaccination card for them.

- The home page contains the following links
 - Add a patient.
 - o Administer Vaccinations

System Features

Use Case #1	Add a patient				
Trigger	User clicks on "Add a patient" link on the home page				
Pre-Conditions	-				
Post-Conditions	The complete information about the patient is stored in the application database				
UI Screen Details	The input form contains th	e following fields			
	Name of the patient	Text value			
	DOB (DD-MMM-YYYY)	Date Value	Preferably use datepicker control		
	Gender	Drop down	Values Male, Female		
	Place of Birth	Text Value			
	Blood Group	Drop down	Values O+, O-, A+, A-, B+, B-, AB+, AB-		
	Height	Decimal (Positive)			
	Weight	Decimal (Positive)			
	Save	Button			
	Cancel	Button			
Main Flow	The user provides the required details in the form and Clicks "Save" button. On successfully saving the patient's details, user is forwarded to the home page along with the message "Patient's details have been saved successfully"				
Data Validations	nd date data fields.				
	Following fields are ma	andatory – Name and	DOB		
Business Rules	Name of the patient should be unique				
Exception Flows	• In case of any failure in Data Validation or Business Rules, user should be brought back to the screen along with the error message "The value provided for the field Is incorrect or incomplete"				
Alternate Flows	When the user selects "Cancel" button, s/he should be taken back to the home page				

Use Case #2 Administer Vaccinations of Patient
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Trigger	User clicks on "Administer Vaccinations of Patient" link on the home page				
Pre-Conditions	Patient details are in the database/cloud				
Post-Conditions	Details of vaccination administered for Patient are stored in database/cloud				
UI Screen Details	 'Add Vaccination' Details form needs to be displayed on the top. This form is used to enter the details of the vaccination details for a Patient and then store it in the database/cloud. The form will have Save and Cancel button. Save button, on click, will validate user entry and store details of administered vaccination in database The cancel button, on click, will reset this form 'Vaccination Card' table needs to be displayed below the 'Add Vaccination' Form. This displays the list of all the vaccinations for all the Patient available in 				
	the database.				
	'Add Vaccination' form UI contains the following fields :				
	Name of the Patient	Drop down	Lists the Patient in the database		
	DOB (DD-MMM-YYYY)	Date Value	Read only. Picked from database for the selected Patient		
	Vaccination	Drop down	Only vaccinations that are due for the given Patient as on current date should be listed. Use AJAX to fetch this list for the selected Patient		
	Date administered	Date Value	Cannot be in future. Value should be on or before today's date. Preferably use a date picker.		
	Brand name	Text Value	Brand of the vaccine that was given		
	Given at	Name of the hospital	Preferably, provide auto-complete suggest options with whatever hospitals that were already entered		
	Save	Button	On click, will validate user entry and store details of administered vaccination in database		
	Cancel	Button	On click, resets this form		
	The 'Vaccination Card' table is displayed with the following columns. By defather records are sorted first based on Name of the Patient, then by Age, both ascending order. Every column header should be clickable to toggle the sort between Ascending and descending. 1. Name of the Patient 2. Age (Age range for the vaccine in months) 3. Vaccine name 4. Due date – Calculated based on First Vaccine 5. Given on (Empty if not present) 6. Brand given (Empty if not present)				
Main Flow	When the page is loaded	the 'Add Vaccina	tion' form and the 'Vaccination Card'		

	table are displayed one below the other.			
	The 'Vaccination Card' table is initially loaded with details in Database. Once the			
	data is entered through the 'Add Vaccination' form and stored successfully, the			
	report gets updated			
Data Validations	Input data has to be validated for numeric and date data fields.			
	 Following fields are mandatory – Name of the Patient, Vaccination and Vaccination given date 			
Business Rules	All vaccines in the system have to be displayed irrespective of whether it is given to the Patient or not			
	Only when a vaccine is administered on the Patient, "Given on" column is populated			
Exception Flows	In case of any failure in Data Validation or Business Rules, user should be brought			
	back to the same screen along with a relevant error message			
Alternate Flows	When the user selects "Cancel" button, the form "Add Vaccination" should be			
	reset			
	When the user selects "Close" button, s/he should be taken back to the home			
	page			