

# Very rough Pseudo Code

## HTML PSEUDO CODE

BEGIN HTML Document

SET language as English

INCLUDE external CSS file for styling

HEAD SECTION

SET page title to "New Patient Registration | Downtown Dentistry"

LINK external CSS styles

BODY SECTION

HEADER

DISPLAY logo

DISPLAY clinic name "Downtown Dentistry"

DISPLAY current date (populated using JavaScript)

FORM ("signup")

SECTION: "Create Patient Account"

INPUT: First Name (text, max length 30, with validation)

INPUT: Middle Initial (text, max length 1, optional)

INPUT: Last Name (text, max length 30, with validation)

INPUT: Date of Birth (date input, with validation)

RADIO BUTTONS: Select Patient's Sex (Male, Female, Non-Binary, Other)

INPUT: Social Security Number (password field with pattern matching)

SECTION: "Patient's Contact Information"

INPUT: Address 1 (text)

INPUT: Address 2 (text, optional)

INPUT: City (text)

DROPDOWN: State selection (multiple options)

INPUT: Zip Code (text, with validation)

INPUT: Email (text, with pattern validation)

INPUT: Phone Number (text, with formatting)

SECTION: "Patient's History"

CHECKBOXES: For various symptoms/conditions

TEXTAREA: To describe symptoms if needed

SECTION: "Urgency of Visit"

INPUT: Range Slider (1 to 10 scale)

SECTION: "Finish Creating Patient Account"

INPUT: Username (text, with validation)

INPUT: Password (password, with validation)

INPUT: Confirm Password (password, with validation)

FORM BUTTONS

BUTTON: Submit form

BUTTON: Reset form

BUTTON: Review form

BUTTON: Validate form inputs

FOOTER

DISPLAY contact information with link

INCLUDE external JavaScript file for form logic

END HTML Document

## JAVA PSEUDO CODE

BEGIN JavaScript

FUNCTION DisplayCurrentDate()

GET current date

FORMAT date to locale string

SET element with id "today" to display formatted date

END FUNCTION

FUNCTION InitializeRangeSlider()

GET slider element

SET output element to display slider value

ON slider input change

UPDATE displayed value

END FUNCTION

FUNCTION ValidateFirstName()

GET value of element "fname"

IF value is empty

DISPLAY "First name cannot be empty" in error element

RETURN false

```
ELSE IF value contains invalid characters
    DISPLAY "Invalid characters" in error element
    RETURN false
ELSE IF length < 2 OR length > 30
    DISPLAY appropriate length error in error element
    RETURN false
ELSE
    CLEAR error message
    RETURN true
END FUNCTION
```

```
FUNCTION ValidateLastName()
    GET value of element "lname"
    PERFORM similar checks as ValidateFirstName()
END FUNCTION
```

```
FUNCTION ValidateMiddleInitial()
    GET value of element "minit"
    CONVERT value to uppercase
    IF not empty AND value does not match single letter pattern
        DISPLAY "Middle initial must be a single uppercase letter" in error element
        RETURN false
    ELSE
        CLEAR error message
        RETURN true
END FUNCTION
```

```
FUNCTION ValidateDateOfBirth()
    GET value of element "dob"
    CONVERT value to Date
    CHECK if date is in the future
    CHECK if date is more than 120 years ago
    IF invalid
        DISPLAY appropriate error message
        CLEAR value of "dob"
        RETURN false
    ELSE
        CLEAR error message
        RETURN true
END FUNCTION
```

```
FUNCTION ValidateSSN()
    GET value of element "ssn"
    APPLY regex pattern for SSN validation
```

```
IF pattern does not match
  DISPLAY error message
  RETURN false
ELSE
  CLEAR error message
  RETURN true
END FUNCTION
```

```
FUNCTION ValidateAddress1()
  GET value of element "address1"
  IF length < 2
    DISPLAY error message
    RETURN false
  ELSE
    CLEAR error message
    RETURN true
END FUNCTION
```

```
FUNCTION ValidateCity()
  GET value of element "city"
  IF empty
    DISPLAY "City cannot be left blank"
    RETURN false
  ELSE
    CLEAR error message
    RETURN true
END FUNCTION
```

```
FUNCTION ValidateZipCode()
  GET value of element "zcode"
  REMOVE non-numeric characters
  IF empty OR length != 5
    DISPLAY "Invalid zip code" message
    RETURN false
  ELSE
    CLEAR error message
    RETURN true
END FUNCTION
```

```
FUNCTION ValidateEmail()
  GET value of element "email"
  APPLY regex pattern for email
  IF pattern does not match
    DISPLAY error message
```

```
    RETURN false
ELSE
    CLEAR error message
    RETURN true
END FUNCTION
```

```
FUNCTION ValidatePhoneNumber()
    GET value of "phoneNumber"
    REMOVE non-numeric characters
    FORMAT phone number
    DISPLAY formatted number
END FUNCTION
```

```
FUNCTION ValidateUsername()
    GET value of "uname"
    CONVERT value to lowercase
    PERFORM checks for length, starting character, valid characters
    IF invalid
        DISPLAY error message
        RETURN false
    ELSE
        CLEAR error message
        RETURN true
    END FUNCTION
```

```
FUNCTION ValidatePassword()
    GET values of "pword" and "uname"
    CHECK password for length, character types, no match with username
    DISPLAY error messages if any
END FUNCTION
```

```
FUNCTION ConfirmPassword()
    COMPARE "pword" and "cpword"
    IF not matching
        DISPLAY "Passwords do not match"
        RETURN false
    ELSE
        CLEAR error message
        RETURN true
    END FUNCTION
```

```
FUNCTION ValidateEverything()
    SET valid flag to true
    CALL all validation functions
```

```
IF all are valid
  ENABLE submit button
ELSE
  DISPLAY alert box
END FUNCTION
```

```
ATTACH event listeners to form inputs and buttons
```

```
END JavaScript
```