

HUGE

Freelance Web Engineer Coding Challenge

Introduction to the problem

On this challenge you will be building an appointment creator where the end user will be able to pick a date and a time to set an appointment.

You should build your appointment creator by incrementally adding functionality on each step of the challenge. So you need to make sure all the previous functionality is top notch before moving to the next step.

Technical requirements:

Make sure to provide a complete working project (including build files, image resources, source files, libraries, etc) and instructions on how to build and run the solution.

Along with the project, please include enough tests to ensure the application's functionality.

Use the wireframes provided as a guide of the elements that need to be displayed on each screen, but make sure to use styles and accommodate things in a usable manner. Keep mobile first in mind when implementing your solution, as everything should be responsive.

Remember that in order to build everything you should only use vanilla Javascript and CSS.

Appointment Creator

Step 1

The user will be presented with a form that has the following elements:

- Title
- Small description label describing what is expected from the user
- Date picker

Acceptance criteria:

- 1) All elements in the form should have CSS style
- 2) The date field should read "*Choose a date...*" by default (text in this field should not be selectable)
- 3) When the user opens the calendar on the date picker the current date should be selected by default
- 4) The end user is able to pick **any date** they prefer by clicking on the day inside the calendar
- 5) User can change the date as many times as needed
- 6) If the user will change the date, the calendar should open by default on the previously selected date

The screenshot shows a web browser window titled "Appointment Creator". The address bar displays "http://apptmnt.com". The main content area has a heading "Welcome to the Appointment Creator!" followed by the instruction "Please select a date for your appointment:". Below this, there is a text input field containing the placeholder text "Choose a date..." and a small calendar icon to its right.

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Step 2

Now we will add more functionality. In this screen, the user will be presented with a form that has the following elements:

- Title
- Small description label describing what is expected from the user
- Date picker
- Time picker


Acceptance criteria:


- 1) All acceptance criteria from the Step 1 apply to the date picker
- 2) The time picker should allow the user to pick a time from a scrollable list that displays hours in 15 minutes intervals
- 3) The list should contain all the possible 15 minute intervals between 00:00 AM and 11:45 PM
- 4) Time format should be AM/PM
- 5) By default, the time displayed on the list will be 12:00 PM
- 6) User can update the time as many times as needed. When opening the time picker, the currently chosen time should be highlighted

The screenshot shows a web browser window titled "Appointment Creator" with the URL "http://apptmnt.com". The page content includes a welcome message, a prompt to select a date and time, a date picker, and a time picker.

Welcome to the Appointment Creator!

Please select a date and time for your appointment:





12:00 PM

12:15 PM

12:30 PM

12:45 PM

1:00 PM

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Step 3

This is looking good, now, the user will be able to save or cancel the information provided in the form.

The elements on this screen should be:

- Title
- Small description label describing what is expected from the user
- Date picker
- Time picker
- Save button
- Cancel button

Acceptance criteria:

- 1) All acceptance criteria from the steps 1 and 2 apply here
- 2) When user clicks on the *Save* button, they should see a message that confirms the date and time chosen on a string (the data chosen by the user should still be visible in the form)
- 3) When user clicks on the *Cancel* button, all data on the form will be reset to its default state ("*Choose a date...*" for date, 12:00 PM for time)



The screenshot shows a web browser window titled "Appointment Creator" with the URL "http://apptmnt.com". The page content includes a welcome message, a prompt to select a date and time, a date picker showing "02/25/2017", a time picker showing "3:45 PM", "Save" and "Cancel" buttons, and a confirmation message: "Good! Your appointment is set for 02/25/2017 at 3:45 PM. Thanks."

Appointment Creator

http://apptmnt.com

Welcome to the Appointment Creator!

Please select a date and time for your appointment:

02/25/2017  3:45 PM 

Save Cancel

Good! Your appointment is set for 02/25/2017 at 3:45 PM. Thanks.

Step 4

Now, let's add some behavioral rules, as users cannot travel through time, let's make sure they don't choose previous dates.

The elements on this screen should be the same as in step 3. Also, we will add a filtering option for the calendar to enable or disable days. (Use wireframe as reference, but choose the best possible way to make the calendar filter nice and usable).

Acceptance criteria:

- 1) All **visual** acceptance criteria from the previous steps apply
- 2) When visible, the calendar should disable all days previous to the current date
- 3) The user should be able to filter the calendar using three possible states:
 - a) Any date (enables all **valid days** in the calendar)

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Appointment Creator

http://apptmnt.com

Welcome to the Appointment Creator!

Please select a date and time for your appointment:

Filter calendar by:

☒ Any date

☐ Only weekends

☐ Only weekdays

Choose a date...

◀

February 2017

▶

S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

12:00 PM

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Save

Cancel

b) Only weekdays (disables only weekend days)

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Appointment Creator

http://apptmnt.com

Welcome to the Appointment Creator!

Please select a date and time for your appointment:

Filter calendar by:

☐ Any date
 ☐ Only weekends
 ☒ Only weekdays

Choose a date...

◀

February 2017

▶

S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

3:15 PM

Save

Cancel

c) Only weekends (disables all weekdays)

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Appointment Creator

http://apptmnt.com

Welcome to the Appointment Creator!

Please select a date and time for your appointment:

Filter calendar by:

☐ Any date
 ☒ Only weekends
 ☐ Only weekdays

Choose a date...

◀

February 2017

▶

S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

3:15 PM

Save

Cancel

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Step 5

And lastly, let's make sure that the time picker also works correctly. On this step, make sure that the time picker does not display hours previous to the current time.

The elements on this screen should be the same as in step 4.

Acceptance criteria:

- 1) All acceptance criteria from the step 4 applies
- 2) If the day selected on the date picker corresponds to the current date, the time picker should only display the time within the nearest 15 minute increment (i.e.: At 3:07 PM, the time picker should only display times from 3:15 PM to 11:45 PM)

The screenshot shows a web browser window titled "Appointment Creator" with the URL "http://apptmnt.com". The page content includes a welcome message, a prompt to select a date and time, and three main interactive elements: a filter menu, a calendar, and a time picker.

Welcome to the Appointment Creator!

Please select a date and time for your appointment:

Filter calendar by:

- ☒ Any date
- ☐ Only weekends
- ☐ Only weekdays

Calendar: A calendar for February 2017. The date 16 (Tuesday) is selected and highlighted in blue.

S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Time Picker: A vertical list of time slots starting from 3:15 PM. The 3:15 PM slot is highlighted in blue. The list includes 3:15 PM, 3:30 PM, 3:45 PM, 4:00 PM, and 4:15 PM.

Buttons: "Save" and "Cancel" buttons are located at the bottom left of the form.