

Innovid CSE: Home Task

Thank you for taking the time to do our technical test.

This test includes

1. Technical task
2. Follow-up questions

General instructions

- Once you receive the email, please confirm receipt so we know everything is ok and you are able to start working
- This test should take approximately 2.5 - 3 hours, please return the test to us within 48 hours
- Once you completed the test, you can either compress your files to a single zip file named `{fullname}-{date}.zip` or send a link to a private git repository
- The zip file/git repo should also include a txt or markdown file with answers to the follow-up questions
- Please send the compressed zip file via email to yaron@innovid.com
- Please avoid pushing the code to a public repo

Guidelines

- We are strict with security and don't like sharing API keys with client-side calls
- This task is focused on a backend service. Though a front-end design is attached at the end of this doc, **The focus is not on the UI, but rather on your backend API**

Task

- In this task, you will need to develop an *express* based API HTTP end-point that returns weather information to a client-side webpage.
- Use the following weather API for the weather forecast: <https://www.weatherbit.io/api>
- Your end-point should accept 2 parameters:
 - *city (string)*: will be the location passed to the weather api
 - *forecastdays(int)* : possible values:
 - 1 - will return weather only for today
 - 2 - will return weather for today and tomorrow
 - 3 - will return weather for today's and the 2 following days.
- The UI should include the following flow:
 - A User selects a city from a dropdown list of 4 cities: "minneapolis", "Jackson", "kansas", "New York".
 - A user selects from a dropdown list the number of days they want to view the weather for. (missing in the attached design, please add it freely)
 - Page 1 disappears and page 2 appears with a forecast for the selected location, and the number of forecast days.

Bonus UI feature:

- The user selects the 'other' option from the dropdown
- A text box appears under the dropdown, the user types in an unsupported city name (e.g. "qwertyuio")
- An error message will appear

Follow up questions

1. Did you face any challenge with the test? If so, what is the biggest challenge you faced?
2. How long did it take you to complete the assignment?
3. If you had more time, what would you add to your code?
4. How would you test your code? Describe a few tests you would write for this task.

Please feel free to contact aron@innovid.com if you have any questions.

Good luck!

Page 1

INNOVD

Header Title

Hey User

Select City

Minneapolis

Jackson

Kansas

New York

Other

Submit

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Page 2

INNOVD

Header Title

Hey User

< Back

Three Days Forecast for Minneapolis

Date: DD-MM-YY

Day: 7°


Night: -7°


Partly Cloudy

Cloudy

Sunrise: HH:MM

Sunset: HH:MM





Date: DD-MM-YY

Day: 12°


Night: 0°


Sunny

Clear

Sunrise: HH:MM

Sunset: HH:MM





Date: DD-MM-YY

Day: 7°


Night: -7°


Partly Cloudy

Partly Cloudy

Sunrise: HH:MM

Sunset: HH:MM





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Bonus feature

Page 3

INNOVD | Header Title

Hey User

Other

Submit

type other city

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Page 4

INNOVD | Header Title

Hey User

Other

Submit

type other city

Unable to retrieve weather data for the selected lodation

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