



Talent Acceleration Program

Workbook



tap.kiitos.tech

Week 2

“Time is the scarcest resource; and unless it is managed, nothing else can be managed.”

Welcome to **week 2** of the Talent Acceleration Program!

On the *Technical Skills* side,

- ❖ The Frontend specialization will go deeper into the core concepts of Single Page Applications (SPA): component-based thinking, the rendering lifecycle and state are found in any of the popular SPA frameworks. As it's the most popular at the moment, we'll use React.js as the one to illustrate these concepts with!
- ❖ The Backend specialization will learn more about the key roles the backend fulfills: Application Programming Interfaces (API), the architectural pattern Representational State Transfer (REST) and lastly, database management (and its most important operations: CRUD).

On the *Soft Skills* side you will get familiar with another fundamental topic: time management. More importantly, how to take ownership of your time so that you can be more productive.

Good luck!

The TAP Team

PART 3: Weekly Assignment

1. Self Assessment

In the Self-Assessment you are challenged to reflect on what you've learned this week. Answer the following questions:

Technical (Frontend)

- Why is “thinking in components” useful when building a webpage?

Technical (Backend)

- Are there any other alternatives to REST to build APIs? Give 2 examples.

Soft Skills

- How could ownership help develop better time management skills?

2. Algorithm Challenge

In the Algorithm Challenge you will practice your ability to solve problems. Find a solution for a given challenge. In pseudo code, explain step by step your solution:

→ [Palindrome Number](#)

How to submit

1. Create the right file type for each assignment (i.e. `razan-selfassessment-w2.txt` & `razan-algochallenge-w2.js`)
2. Make a pull request to the `main` branch of the [tap-cohort-4](#) repository
3. Do a little victory dance because you did it!!

Deadline is Saturday 23.59!