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SINGULARITY software technologies	Anytime Intern Full Stack Developer (Web) Case Study	

CASE STUDY

1. PROJE AÇIKLAMASI VE GEREKSINIMLER

2.1 **Project Description**	**We would like a Todo website developed using Firebase, Next.js and Git technologies.** **We expect you to develop a project that searches between todos using Firebase Firestore Database and performs CRUD operations on todos through a REST-API service.**
2.2 Project Requirements	**Front-end Improvements:** • There should be user login and registration screens. **A user who has logged in can log in again. should not.** E-mail, password and name and surname information must be obtained on the registration page. The password must be at least **8 characters** and e-mail validation must be done in the e-mail field. • A logged in user must be able to end their session. • We expect the user to be shown two tabs in the Navbar : **"Completed"** and **"Incomplete" .** • **"Completed"** and **"Incomplete"** todos by **creation date** It is expected to be displayed in order (new to old). The sorting process should not be on the client side (sorting within a list) . • There should be a search section at the top of the **"Completed"** and **"Incomplete"** todos page and the search should be made according to the content of the todo. • When an incomplete todo is completed, it appears on the Incomplete Todo page. It is expected not to appear. • Create a design of your choice for adding todos, updating todos and deleting todos. you can use • Form validations are expected in all transactions. • Form validations should be done using **react-hook-form .** • All relevant pages to be developed must be coded responsively using **"Bootstrap".** we are waiting. • We expect you to write the front-end side of the project according to **the Atomic Design Pattern .** • Todos **should be cached with redis cache** and the cache should be updated when there is any CRUD operation in todos. • When the project is opened from the browser, the tab's image and title must be adjusted. **Firebase and Backend Improvements:** • Firestore Cloud allows you to manage all your transactions here using Firestore Database. we are waiting. • Create a Firebase project and use Next.js and Typescript (preferably) to edit your Firebase project. We are waiting for you to integrate it to the web side.

	• Sensitive data (API Key, Project ID, etc.) **should be stored using ".env"** file.
	      we are waiting.
	 • We expect you to write a REST-API with Next.js for the CRUD operations to be performed. •
	 The registered user should be written under the User collection in Firestore Cloud Firestore, apart from the authentication table. Here, name and surname information can be kept in a single variable. Additionally, the account creation date should also be entered into the database. •
	 Sign in method type should be e-mail / password.
	
	 Version Control System and Development Process:
	
	 • We expect you to use the Git versioning system. (Bitbucket, Github etc.) • The project should not be committed with a single commit, it should be committed piece by piece and commit
	      We expect your messages to be taken into consideration.
	 • Establish a branch structure in the **feature/base** branch structure and assign features to **"main"**
	      We are waiting for the branch to be merged by sending **a pull request . (Nice to have - Bonus)** •
	 Pay attention to clean coding practices and add comment lines.
	      We are waiting for you to show us. **(Nice to have - Bonus)**
	 • Prevent loading, errors and empty data from the database when opening pages
	      checking and applying to pages **(Nice to have - Bonus)**
	
	 • Even if not writing unit tests, at least doing a little research on which tools are used to gain know how
	      (Nice to have - Bonus)
	
	 • Vercel-app, github etc. The project should be taken live using platforms such as.

2.3 Project Delivery	At the end of the three-day period, we expect you to upload your case study to one of the version control system platforms of your choice, write a **"README"** about your study at the end of the case study, and then present this study to us. Feel free to contact us whenever you have any questions. **For the Case Study presentation, we would like you to create a meeting schedule with 15-minute slots open on July 30-31, via the link below.** Our expectation from you is not for everything to be perfect, so please feel comfortable and strive to complete the best possible version of the case for you. It is quite normal to have missing or incomplete parts :) We just want to see what you can do. **Interview Calendar Link:** https://calendly.com/singularity-anytime/casestudy **Good luck!** **Anytime Development Team** **For your questions about the Case Study:** **Ahmet Kaan EXPERT** **destek@anytime.com.tr** **0(543) 434 31 80**