## Training plan

## Javascript

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| Theme | Description | Task | Control | Deadline |
| Objects in JS | Need to learn how objects works in JS. Reference types in JS.  After learning. Vlad understand object behavior in language. Know how to copy an object and understand difference of the refence types with other types. Can create and copy objects to create a real copy. | Reading https://javascript.info/ topics 4.1, 4.2, 4.3. And done tasks after each topic | Meeting with results. | 06.09.2022 |
| Classes in JS | Learn classes in JS. Understanding of the basic principles of OOP (optional). Understanding basic entities of the classes (class, access methods, static, constuctors, extending). Can create classes, with all object entities and work with classes. | Reading <https://javascript.info/>  Topics from chapter 9.  Make singleton. Functional + classes | Meeting with results. | 09.09.2022 |
| This in JS | Learn this and context in JS. Understanding of context of execution, understanding how this works in the execution context. Could find out why “this” is undefined. Learn how to work with bind, call, apply functions in JS and what they done. | Reading https://javascript.info/ Topics from part 4.4, 6.9, 6.10, 6.11 and done tasks from each topic. | Meeting with results. | 13.09.2022 |

## Typescript

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| Theme | Description | Task | Control | Deadline |
| Typescript | Learn how to use TypeScript. Learn about interfaces, types, enums, generic types, how typing work with properties (utility types). Write code using TypeScript. Use typescript to define interfaces. Use typescript to describe functions, methods, another interfaces and create complicated interface structures. | Complete all of the tasks from <https://github.com/total-typescript/beginners-typescript-tutorial> | Created github repository with tasks and send them on ready.  Discussion of the tasks on deadline meeting. | 20.09.2022 |

Last week - refresh memory (deadline – September 23):

1. React lifecycle
2. React hooks
3. HTTP – protocol (headers)
4. REST – methods, naming

Database knowledge

Reading about Database theory relations

NodeJS, MongoDB, SQL

After NodeJS go to Security Part, cryptography