

## Candidate - Dmitry Usik (middle)

JavaScript TypeScript React React Native Data structures and algorithms  
Native Platforms Communication Skills Test Tasks Other



### Evaluation:

- 1 - Doesn't have theoretical and practical skills in this area.
- 2 - Has superficial theoretical or practical skills in this area.
- 3 - Has enough practice and superficial theoretical skills in this area.
- 4 - Has good theoretical and practice skills in this area.
- 5 - Has excellent theoretical and practice skills in this area.

### Questions:

#### JavaScript (15 min):

- 1) What is memoization and what's the use of it? **Mark:     / 5**
- 2) What are ES6 modules? **Mark:     / 5**
- 3) What is callback function? **Mark:     / 5**
- 4) What are promises? **Mark:     / 5**
- 5) What is async/await and how it works? **Mark:     / 5**
- 6) What are generators? **Mark:     / 5**

7) What are symbols? **Mark:   / 5**

**TypeScript (10 min):**

1) List out the built-in data types in TypeScript. **Mark:   / 5**

2) What are generics in TypeScript? **Mark:   / 5**

3) Explain enum in TypeScript. **Mark:   / 5**

4) What Utility Types are in TypeScript? **Mark:   / 5**

**React (20 min):**

1) In what cases does it make sense to choose Mobx instead of Redux? **Mark:   / 5**

2) What is observable? **Mark:   / 5**

3) What are actions? **Mark:   / 5**

4) What are computends? **Mark:   / 5**

5) How does the performance of using hooks compare to that of classes? **Mark:   / 5**

6) What is useEffect hook? **Mark:   / 5**

7) What is useMemo hook? **Mark:   / 5**

8) What is useRef hook? **Mark:   / 5**

9) What is context? **Mark:   / 5**

10) What are forward refs? **Mark:   / 5**

**React Native (20 min):**

1) What are the benefits of React Native? **Mark:   / 5**

2) How to boost the performance of lists in React Native? **Mark:   / 5**

3) Describe the Flexbox approach. **Mark:   / 5**

4) Have you ever supported multilanguage apps? Describe the approach you used.

**Mark:   / 5**

5) Have you ever implemented complex animations? What solutions did you use for it?

**Mark:   / 5**

6) What libraries for navigation did you use? Describe your experience. **Mark:   / 5**

7) Have you ever faced performance issues? How did you resolve them? **Mark:   / 5**

**Data structures and algorithms (10 min):**

1) What is Map? **Mark:   / 5**

2) What is Set? **Mark:   / 5**

3) What is recursive function? **Mark:   / 5**

**Native Platforms (10 min):**

1) Have you ever published apps to App Store? Describe the process. **Mark:   / 5**

2) Have you ever published apps to Play Market? Describe the process. **Mark:   / 5**

3) What is AndroidManifest.xml? **Mark:   / 5**

**Communication Skills (10 min):**

- 1) Have you ever done estimations? Describe this process. **Mark:   / 5**
- 2) What is Scrum? **Mark:   / 5**
- 3) How many OS did you work with? **Mark:   / 5**
- 4) What code editor or IDE do you prefer? **Mark:   / 5**
- 5) What cloud code repositories did you work with? **Mark:   / 5**

**Test Tasks (5 min):**

- 1) Fill the array with the first 10 numbers of the Fibonacci series. **Mark:   / 5**

**Other (10 min):**

- 1) Describe the OOP approach? **Mark:   / 5**
- 2) Describe the Singleton design pattern. **Mark:   / 5**
- 3) Mention what are the HTTP methods supported by REST. **Mark:   / 5**