

## 1 Introduction

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## 2 Diagrams

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## 3 Interface to Insert and Search Data via Forms

### 3.1 Challenges

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### 3.2 Solution

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### 3.3 Requirements

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### 3.4 Limitations

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## 4 Interface to Search Data via Map

### 4.1 Challenges

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### 4.2 Solution

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### 4.3 Requirements

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### 4.4 Limitations

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## **5 PWA – Caching of the App Template Using a Web Worker**

### **5.1 Challenges**

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### **5.2 Solution**

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### **5.3 Requirements**

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### **5.4 Limitations**

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## **6 PWA: Caching Data Using IndexedDB**

### **6.1 Challenges**

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### **6.2 Solution**

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### **6.3 Requirements**

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### **6.4 Limitations**

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## **7 NodeJS Server Including Non-Blocking Organisation of Multiple Dedicated Servers**

### **7.1 Challenges**

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## 7.2 Solution

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## 7.3 Requirements

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## 7.4 Limitations

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# 8 MongoDB

## 8.1 Challenges

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## 8.2 Solution

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## 8.3 Requirements

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## 8.4 Limitations

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# 9 Quality of the Web Solution

## 9.1 Challenges

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## 9.2 Solution

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## 9.3 Requirements

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## **9.4 Limitations**

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## **10 Conclusions**

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## **11 Division of Work**

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## **12 Extra Information**

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