

O'ZBEKISTON RESPUBLIKASI RAQAMLI TEXNOLOGIYALAR VAZIRLIGI  
MUHAMMAD AL-XORAZIMIY NOMIDAGI TOSHKENT AXBOROT  
TEXNOLOGIYARI UNIVERSITETI  
**SAMARQAND FILIALI**



JavaScriptda dasturlash (ma`ruza) fanidan

**Loyiha tayyorlash**

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## 10. JavaScript Chat Tizimi

- Firebase yoki WebSocket orqali ishlovchi oddiy chat ilovasi.
- Foydalanuvchilar anonim yoki login orqali suhbatlasha oladi.

```
<!DOCTYPE html>
<html>
<head>
  <title>Chat App</title>
  <style>    body
{
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
max-width: 800px;    margin: 0 auto;    padding: 20px;
    background-color: #f5f5f5;
}
    #auth-container {
background-color: white;
padding: 20px;    borderradius:
8px;
    box-shadow: 0 2px 10px rgba(0,0,0,0.1);
margin-bottom: 20px;    text-align: center;
}
    #chat-container    {
display:          none;
background-color: white;
border-radius: 8px;
    box-shadow: 0 2px 10px rgba(0,0,0,0.1);
}
    #messages    {
height:    500px;
overflow-y: auto;
    padding: 15px;
}
    .message {    margin-
bottom:          15px;
padding: 10px;
    border-bottom: 1px solid #eee;
}
```

```
.sender {    fontweight:
bold;
    color: #3498db;
} .time {    font-
size: 12px;    color:
#999;
margin-left: 10px;
    }    #message-form {
display: flex;    padding:
15px;    border-top: 1px
solid #eee;
    }
    #message-input    {
flex-grow: 1;    padding:
10px;    border: 1px solid
#ddd;    border-radius:
4px;
    }
    #send-button {    marginleft:
10px;    padding: 10px 20px;
background-color: #3498db;
color: white;    border: none;
border-radius:
4px;    cursor: pointer;
    }
    #user-name {
padding: 10px;    width:
200px;    border: 1px
solid #ddd;
    border-radius: 4px;
    }
    .auth-button {    padding:
10px    20px;
backgroundcolor:    #2ecc71;
color: white;    border: none;
border-radius: 4px;    cursor:
pointer;
    }
</style>
```

```

</head>
<body>
  <div id="auth-container">
    <input type="text" id="user-name" placeholder="Ismingiz" value="Sharofiddin">
  <button class="auth-button" id="login-button">Kirish</button> </div>

  <div id="chat-container">
    <div id="messages"></div>
    <div id="message-form">
      <input type="text" id="message-input" placeholder="Xabar yozing..."
autocomplete="off">
      <button id="send-button">Yuborish</button>
    </div>
  </div>

  <script type="module">
import { initializeApp } from
"https://www.gstatic.com/firebasejs/9.22.1/firebaseapp.js"; import { getDatabase, ref,
push, onValue, serverTimestamp } from
"https://www.gstatic.com/firebasejs/9.22.1/firebase-database.js"; import {
getAuth, signInAnonymously, updateProfile } from
"https://www.gstatic.com/firebasejs/9.22.1/firebase-auth.js";

const firebaseConfig = {
  apiKey:
  "AIzaSyAfMlFddugHw0ijTCoLZYVIje498hQHvdw",
  authDomain: "chatapp-ffda4.firebaseio.com",
  databaseURL: "https://chatapp-ffda4-default-rtdb.firebaseio.com",
  projectId: "chatapp-ffda4", storageBucket: "chatappffda4.appspot.com",
  messagingSenderId: "236478812000",
  appId: "1:236478812000:web:428feb03cc05545c475805"
};
const app = initializeApp(firebaseConfig);
const database = getDatabase(app); const auth
= getAuth(app);

const authContainer = document.getElementById('auth-container');
const chatContainer = document.getElementById('chat-container');
const messagesDiv = document.getElementById('messages'); const

```

```

messageInput = document.getElementById('message-input');    const
loginButton    =    document.getElementById('login-button');
loginButton.addEventListener('click', async () => {
try {
    const displayName = document.getElementById('user-name').value.trim() ||
"Anonim";
    const userCredential = await signInAnonymously(auth);
await updateProfile(userCredential.user, { displayName });

    authContainer.style.display = 'none';
    chatContainer.style.display = 'block';

    //    Xabarlarni    yuklash
loadMessages();    } catch (error) {
console.error("Kirishda xato:", error);
    alert("Kirishda xato: " + error.message);
    }
});

function loadMessages() {    onValue(ref(database,
'messages'), (snapshot) => {
messagesDiv.innerHTML = "";
snapshot.forEach((child) => {    const msg = child.val();
    const    msgElement    =    document.createElement('div');
msgElement.className =    'message';
msgElement.innerHTML = `
    <span class="sender">${msg.displayName}</span>
    <span class="time">${formatTime(msg.timestamp)}</span>
    <div class="text">${msg.text}</div>
    `;
    messagesDiv.appendChild(msgElement);
});
messagesDiv.scrollTop = messagesDiv.scrollHeight;
});
}

document.getElementById('send-button').addEventListener('click', sendMessage);

```

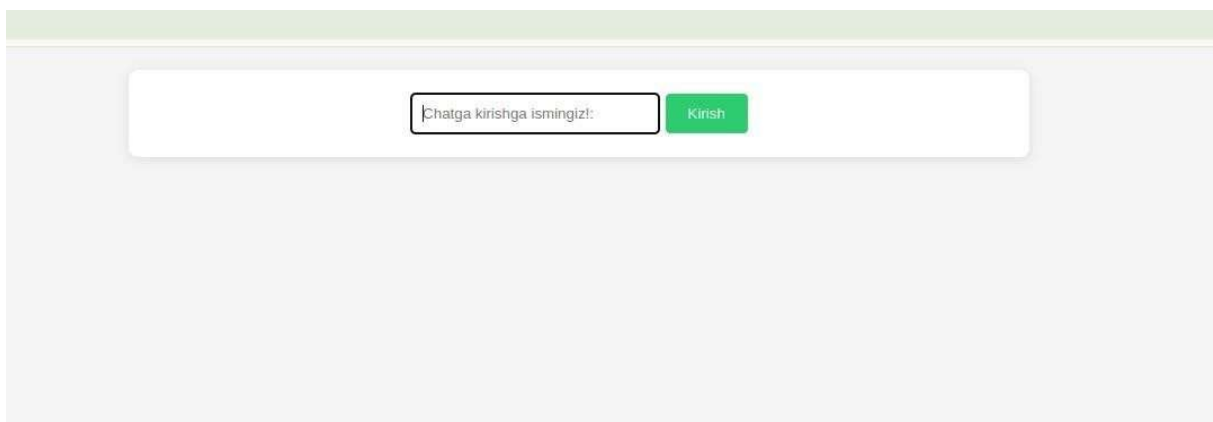
```

messageInput.addEventListener('keypress', (e) => {      if (e.key === 'Enter')
sendMessage();
    });
    async function sendMessage() {
const text = messageInput.value.trim();
if (!text) return;

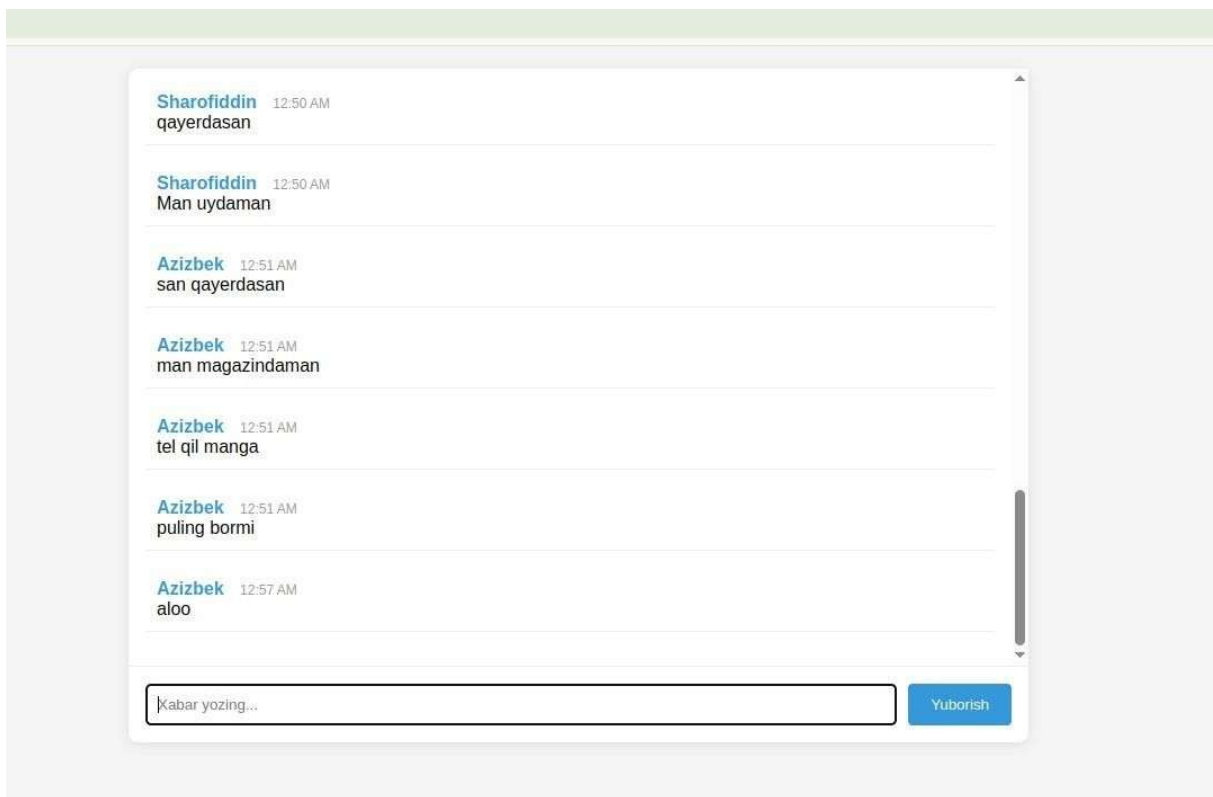
try {
    const user = auth.currentUser;
await push(ref(database, 'messages'), {      text:
text,
    displayName: user.displayName || "Anonim",
timestamp: serverTimestamp()
    });
    messageInput.value = "";
} catch (error) {
    console.error("Xabar yuborishda xato:", error);
}
}

function formatTime(timestamp) {
if (!timestamp) return "";
try {
    const date = new Date(timestamp);
    return date.toLocaleTimeString('en-US', { hour: '2-digit', minute: '2-digit' });
} catch (e) {      return
";
    }
}
</script>
</body>
</html>

```



**1-rasm**



**2-rasm**

## **TUSHUNTIRISH:**

**1-rasm** da hozir kirish, ya'ni chatga qo'shilish uchun ism kiritish kerak bo'ladi.

**2-rasm** da esa, usha yaratilgan chatda kimlar bo'lsa ushalarning bir biriga yuborgan xabarlari ko'rinadi.