TUGAS PERORANGAN/INDIVIDU

LAPORAN JOBSHEET MINGGU 11 FIREBASE REACT

Disusun Sebagai:

MATA KULIAH: PEMROGRAMAN BERBASIS FRAMEWORK

Oleh:

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TI-3B



PROGRAM STUDI D-IV TEKNIK INFORMATIKA JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG

2020

A. Menggunakan Email

1. Membuat Project React

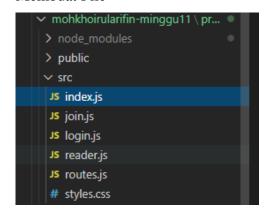
```
PS G:\Kuliah\Semester6\PemrogramanBerbasisFramework\mohkhoirularifin-minggu11> npx create-react-app praktikum

Creating a new React app in G:\Kuliah\Semester6\PemrogramanBerbasisFramework\mohkhoirularifin-minggu11\praktikum.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

> core-js@2.6.11 postinstall G:\Kuliah\Semester6\PemrogramanBerbasisFramework\mohkhoirularifin-minggu11\praktikum\node_modules\babel-runtime\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"
```

2. Membuat File



3. Install react-router-dom

```
PS G:\Kuliah\Semester6\PemrogramanBerbasisFramework\mohkhoirularifin-minggu11\praktikum> npm install react-router-dom npm MARI tsutils@3.17.1 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.5.
```

4. Mengubah Code Tiap-Tiap File yang Dibuat

a. index.js

```
import React, { useState } from "react";
import ReactDOM from "react-dom";
import { Switch, BrowserRouter as Router, Route } from "react-
router-dom";
import routes from "./routes.js";
import Header from "./Header.js";
import "./styles.css"

export const AuthContext = React.createContext(null);

function App() {
  const [isLoggedIn, setLoggedIn] = useState(false)
  return (
```

```
<AuthContext.Provider value = {{ isLoggedIn, setLoggedIn }</pre>
} >
      Is Logged in? {JSON.stringify(isLoggedIn)}
      <div className = "App">
        <Router>
          <Header/>
          <Switch>
            {routes.map(route => (
              <Route
                key = {route.path}
                path = {route.path}
                exact = {route.exact}
                component = {route.main}
               />
            ) ) }
          </Switch>
        </Router>
      </div>
    </AuthContext.Provider>
  );
const rootElement = document.getElementById("root");
ReactDOM.render(<App />, rootElement);
```

b. Login.js

```
import React, { useState, useContext } from "react";
import { AuthContext } from "./index";
const Login = () \Rightarrow \{
    const [email, setEmail] = useState("");
    const [password, setPassword] = useState("");
    const [error, setErrors] = useState("");
    const Auth = useContext(AuthContext);
    const handleForm = e => {
        e.preventDefault();
        console.log(Auth);
        Auth.setLoggedIn(true);
    };
    return (
        <div>
            <h1>Login</h1>
            <form onSubmit = {e => handleForm(e)}>
                <input
                 value = {email}
                 onChange = {e => setEmail(e.target.value)}
                 name = "email"
                 type = "email"
                 placeholder = "email"
                />
                <input
                 onChange = {e => setPassword(e.target.value)}
                 name = "password"
                 value = {password}
                 type = "password"
                 placeholder = "password"
                />
```

c. Join.js

```
import React, { useState, useContext } from "react";
import { AuthContext } from "./index"
const Join = () => {
   const [email, setEmail] = useState("");
   const [password, setPassword] = useState("");
   const [error, setErrors] = useState("");
   const Auth = useContext(AuthContext);
    const handleForm = e => {
        e.preventDefault();
        console.log(Auth);
       Auth.setLoggedIn(true);
   } ;
   return (
        <div>
            <h1>Join</h1>
            <form onSubmit = {e => handleForm(e)}>
                <input
                value = {email}
                onChange = {e => setEmail(e.target.value)}
                name = "email"
                type = "email"
                placeholder = "email"
                />
                <input
                onChange = {e => setPassword(e.target.value)}
                name = "password"
                value = {password}
                type = "password"
                placeholder = "password"
                />
                <hr />
                <button class = "googleBtn" type = "button">
                     src = "https://upload.wikimedia.org/wikip
edia/commons/5/53/Google %22G%22 Logo.svg"
                     alt = "logo"
                    Join With Google
                </button>
```

d. Header.js

e. routes.js

f. style.css

```
.App {
    font-family: sans-serif;
    padding: 50px;
}

h1 {
    margin: 0 0 25px 0;
    text-align: left;
}

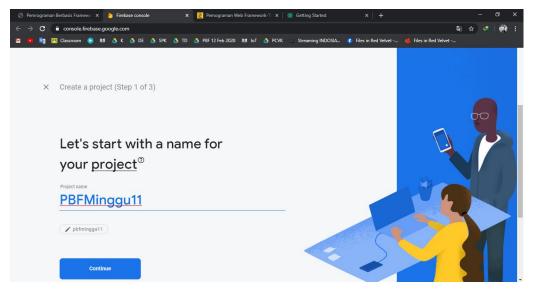
form {
    display: flex;
    flex-direction: column;
}

input {
    max-width: 450px;
```

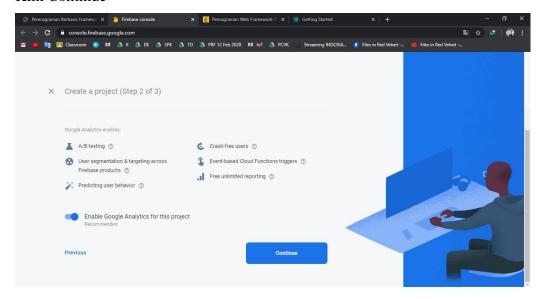
```
width: auto;
    border: none;
    margin: 0 0 25px 0;
    box-shadow: 0 1px 3px rgba(0, 0, 0, 0.12), 0 1px 2px
rgba(0, 0, 0, 0.24);
    transition: all 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
    padding: 10px;
button {
    width: 125px;
    box-shadow: 0 1px 3px rgba(0, 0, 0, 0.12), 0 1px 2px
rgba(0, 0, 0, 0.24);
   border: none;
   padding: 7px;
   text-align: center;
   cursor: pointer;
button[type = "submit"] {
   background-color: #4c566a;
    color: white;
    font-size: 14px;
    font-weight: 900;
    border-radius: 5px;
    text-transform: uppercase;
    padding: 15px;
.googleBtn {
    width: 225px;
    margin: 0 0 50px 0;
    display: flex;
    justify-content: center;
    font-size: 16px;
}
.googleBtn img {
    width: 16px;
   height: 16px;
   padding: 0;
   margin: 0 5px;
   vertical-align: middle;
}
.nav {
    display: flex;
    text-decoration: none;
    list-style-type: none;
    justify-content: flex-start;
    margin: 0 0 50px;
    padding: 0;
.nav li {
   margin: 0 10px;
```

5. Buat Project Baru Pada Firebase

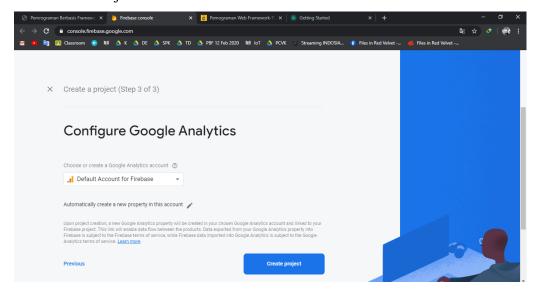
a. Pengisian Nama Project



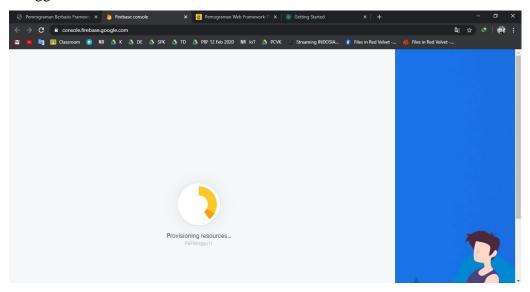
b. Klik Continue



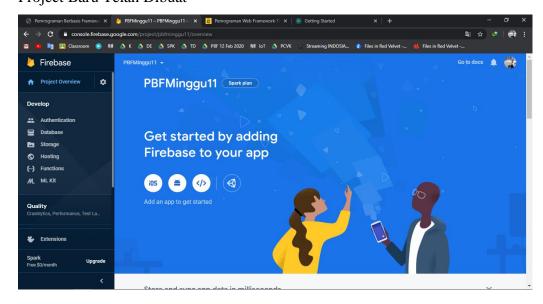
c. Klik Create Project



d. Tunggu Proses Selesai



e. Project Baru Telah Dibuat



6. Install firebase Pada Project

```
PS G:\Kuliah\Semester6\PemrogramanBerbasisFramework\mohkhoirularifin-minggu11\praktikum> npm install --save firebase

> core-js@3.6.4 postinstall G:\Kuliah\Semester6\PemrogramanBerbasisFramework\mohkhoirularifin-minggu11\praktikum\node_modules\@firebase\polyfill\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

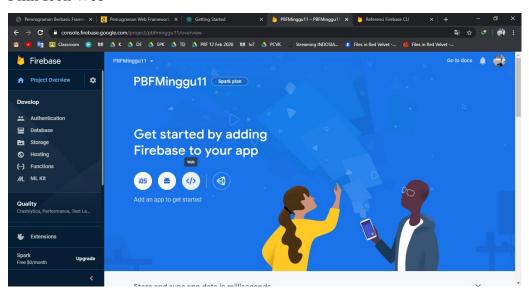
Thank you for using core-js ( https://github.com/zloirock/core-js ) for polyfilling JavaScript standard library!

The project needs your help! Please consider supporting of core-js on Open Collective or Patreon:
> https://opencollective.com/core-js
> https://www.patreon.com/zloirock

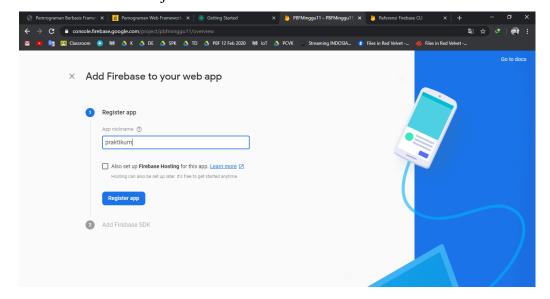
Also, the author of core-js ( https://github.com/zloirock ) is looking for a good job -)
> protobufjs@6.8.9 postinstall G:\Kuliah\Semester6\PemrogramanBerbasisFramework\mohkhoirularifin-minggu11\praktikum\node_modules\pr
```

7. Pilih Web pada Get Started Firebase

a. Pilih Icon Web

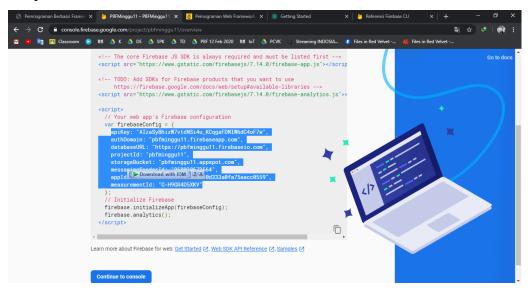


b. Beri Nama Sesuai Project



8. Salin Script yang ada pada Firebase ke File baru

a. Script Pada Firebase



b. Paste Ke firebase.config.js yang baru dibuat

```
export default {
   apiKey: "AIzaSyBhizW7vtdNSi4u_KCqqaFDMlW6dC4oF7w",
   authDomain: "pbfminggu11.firebaseapp.com",
   databaseURL: "https://pbfminggu11.firebaseio.com",
   projectId: "pbfminggu11",
   storageBucket: "pbfminggu11.appspot.com",
   messagingSenderId: "958038673564",
   appId: "1:958038673564:web:2e30d333a0fa75aacc0559",
   measurementId: "G-H9GR4D5XKV"
};
```

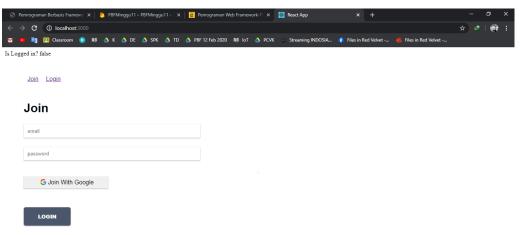
9. Inisialisasi Firebase pada index.js

```
import React, { useState } from "react";
import ReactDOM from "react-dom";
import { Switch, BrowserRouter as Router, Route } from "react-
router-dom";
import routes from "./routes.js";
import Header from "./Header.js";
import "./styles.css"
import * as firebase from "firebase";
import firebaseConfog from "./firebase.config";
firebase.initializeApp(firebaseConfog);
export const AuthContext = React.createContext(null);
function App() {
  const [isLoggedIn, setLoggedIn] = useState(false)
  return (
    <AuthContext.Provider value = {{ isLoggedIn, setLoggedIn }}>
      Is Logged in? {JSON.stringify(isLoggedIn)}
      <div className = "App">
        <Router>
          <Header/>
```

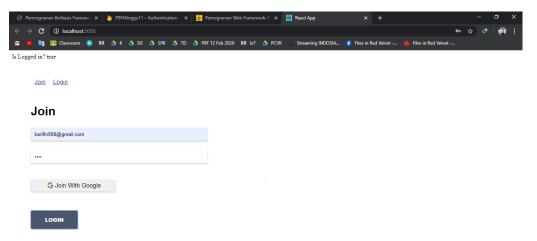
```
<Switch>
            {routes.map(route => (
              <Route
                key = {route.path}
                path = {route.path}
                exact = {route.exact}
                component = {route.main}
              />
            ))}
          </Switch>
        </Router>
      </div>
    </AuthContext.Provider>
  );
}
const rootElement = document.getElementById("root");
ReactDOM.render(<App />, rootElement);
```

10. Run Program

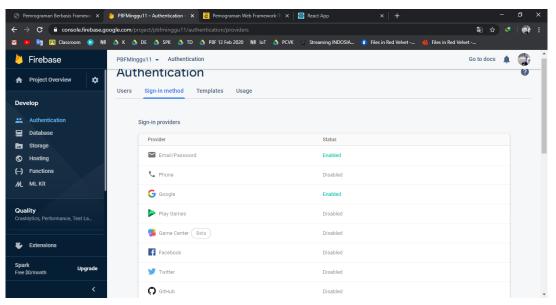
a. Tampilan Awal



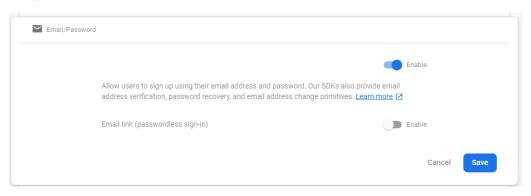
b. Setelah Diklik Join



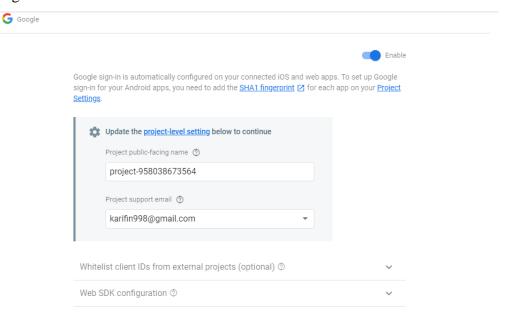
11. Aktifkan Authentication Email dan Google



a. Email



b. Google



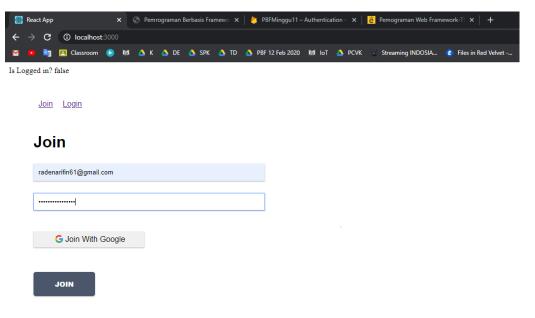
12. Edit Join.js

```
import React, { useState, useContext } from "react";
import { AuthContext } from "./index";
import * as firebase from "firebase"
const Join = () \Rightarrow {
    const [email, setEmail] = useState("");
    const [password, setPassword] = useState("");
    const [error, setErrors] = useState("");
    const Auth = useContext(AuthContext);
    const handleForm = e => {
        e.preventDefault();
        firebase
            .auth()
            .createUserWithEmailAndPassword(email, password)
            .then(res \Rightarrow {
                 if (res.user) Auth.setLoggedIn(true)
            })
            .catch(e => {
                setErrors(e.message);
            });
    };
    return (
        <div>
            <h1>Join</h1>
            <form onSubmit = {e => handleForm(e)}>
                 <input
                 value = {email}
                onChange = {e => setEmail(e.target.value)}
                name = "email"
                 type = "email"
                placeholder = "email"
                 />
                 <input
```

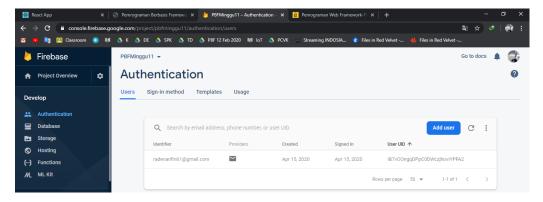
```
onChange = {e => setPassword(e.target.value)}
                 name = "password"
value = {password}
                 type = "password"
                 placeholder = "password"
                 <hr />
                 <button className = "googleBtn" type = "button">
                     <img
                      src =
"https://upload.wikimedia.org/wikipedia/commons/5/53/Google %22G%2
2 Logo.svg"
                      alt = "logo"
                     />
                     Join With Google
                 </button>
                 <button type = "submit"> Join </button>
                 <span>{error}</span>
             </form>
        </div>
    );
} ;
export default Join;
```

13. Klik Join pada Aplikasi

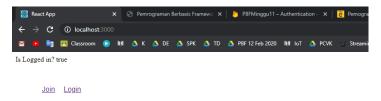
a. Klik Join



b. Hasil Pada Firebase



c. Hasil Setelah Klik Join



Join

14. Ubah Login.js untuk Login

```
import React, { useState, useContext } from "react";
import { AuthContext } from "./index";
import * as firebase from "firebase";
const Login = () => {
    const [email, setEmail] = useState("");
    const [password, setPassword] = useState("");
    const [error, setErrors] = useState("");
    const Auth = useContext(AuthContext);
    const handleForm = e => {
        e.preventDefault();
        firebase
            .signInWithEmailAndPassword(email, password)
            .then(res \Rightarrow {
                if (res.user) Auth.setLoggedIn(true)
            })
            .catch(e => {
                setErrors(e.message);
            });
    };
    return (
        < div >
            <h1>Login</h1>
            <form onSubmit = {e => handleForm(e)}>
                <input
                 value = {email}
                 onChange = {e => setEmail(e.target.value)}
                 name = "email"
```

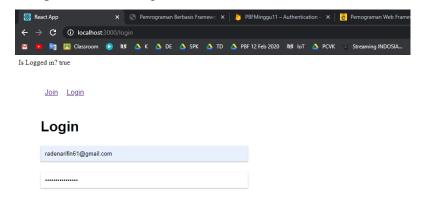
```
type = "email"
                 placeholder = "email"
                />
                <input
                 onChange = {e => setPassword(e.target.value)}
                 name = "password"
                 value = {password}
                 type = "password"
                 placeholder = "password"
                />
                <hr />
                <button className = "googleBtn" type = "button">
                    <img
                     src =
"https://upload.wikimedia.org/wikipedia/commons/5/53/Google_%22G%2
2 Logo.svg"
                     alt = "logo"
                    />
                    Login With Google
                </button>
                <button type = "submit"> Login </button>
                <span>{error}</span>
            </form>
        </div>
    );
};
export default Login;
```

15. Klik Login

a. Tampilan Awal

R	leact App		🗴 🛞 Pemrograman Berbasis Framewo 🗴 🎉 PBFMinggu11 – Authentication – 🗴 📙 Pemrograman Web Framework-Ti 🗴 🕇													0			
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	10 E g	🖪 CI	lassroom	•	ng	<u> </u>	△ DE	△ SPK	△ TD	A PBF 12 Feb 2020	ng lot	PCVK	✓ Streaming INDOSIA	Files in Red Velvet	Files in Red Velvet				
Logg	ged in?	false																	
	<u>Join</u>	Logi	<u>in</u>																
	Lo	gin																	
		9																	
	raden	narifin61	l@gmail.co	om															
	•••••																		
	·	G Log.	in With G	300g	ile														
		LOGIN																	

b. Tampilan Setelah Login



B. Menggunakan Akun Google

1. Mengubah Join.js

```
import React, { useState, useContext } from "react";
import { AuthContext } from "./index";
import * as firebase from "firebase"
const Join = () \Rightarrow {
    const [email, setEmail] = useState("");
    const [password, setPassword] = useState("");
    const [error, setErrors] = useState("");
    const Auth = useContext(AuthContext);
    const handleForm = e => {
        e.preventDefault();
        firebase
             .auth()
             .createUserWithEmailAndPassword(email, password)
             .then(res => {
                 if (res.user) Auth.setLoggedIn(true)
             })
             .catch(e => {
                 setErrors(e.message);
             });
    };
    const handleGoogleLogin = () => {
        const provider = new firebase.auth.GoogleAuthProvider();
        firebase
         .auth()
         .signInWithPopup(provider)
         .then(res \Rightarrow {
            Auth.setLoggedIn(true)
         })
         .catch(e \Rightarrow {
             setErrors(e.message)
        });
    };
    return (
        <div>
             <h1>Join</h1>
```

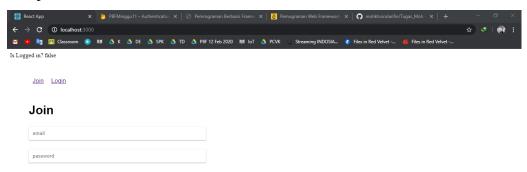
```
<form onSubmit = {e => handleForm(e)}>
                <input
                value = {email}
                onChange = {e => setEmail(e.target.value)}
                name = "email"
                type = "email"
                placeholder = "email"
                <input
                onChange = {e => setPassword(e.target.value)}
                name = "password"
                value = {password}
                type = "password"
                placeholder = "password"
                />
                <hr />
                <button onClick={() => handleGoogleLogin()}
className = "googleBtn" type = "button">
                    <imq
                     src =
"https://upload.wikimedia.org/wikipedia/commons/5/53/Google %22G%
22 Logo.svg"
                     alt = "logo"
                    />
                    Join With Google
                </button>
                <button type = "submit"> Join </button>
                <span>{error}</span>
            </form>
        </div>
    );
};
export default Join;
```

Pada code berwarna merah diatas merupakan fungsi untuk Join menggunakan Google. Terdapat fungsi untuk menghandel login menggunakan Google, terdapat provider yang berisi Authentication akun google. Dan SinInWithPopup untuk membuka window baru berupa popup untuk pemilihan akun.

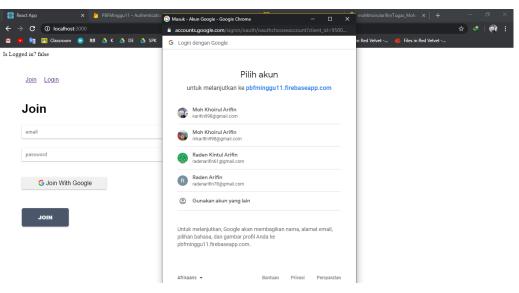
Handel tersebut akan dipanggil pada button, maka saat menekan button maka akan memproses handel.

2. Hasil

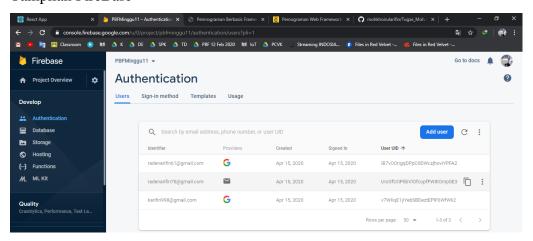
a. Tampilan Awal



b. Klik Tombol Join With Google dan Pilih Akun



c. Tampilan FireBase



d. Tampilan Setelah Join

