WILLAMETTE UNIVERSITY

W-IMs

Intramural event management system

THE TEAM

- SHOUVIK AHMED ANTU
- GREGORY CALLAHAN
- DOUGLAS II
- MALIE HEINE

introducing

SHOUVIK AHMED ANTU

- First Year student
- Double major in Computer Science & Data Science
- Minor in Mathematics

- Project Management
- Design & Structure
- Backend Developement

introducing

DOUGLAS II (HE/HIM)

- Third Year student
- Major in Computer Science
- Minor in Philosophy

- Backend Development
- Database Management

introducing

GREGORY CALLAHAN

- Fourth Year student
- Major in Computer Science

- Backend Development
- Database Management
- Testing & Debugging

introducing

MALIE HEINE

- Fourth Year student
- Major in Computer Science
- Minor in Data Science

- Frontend Developement

THE

Process

The Why

The What

The How

The Why

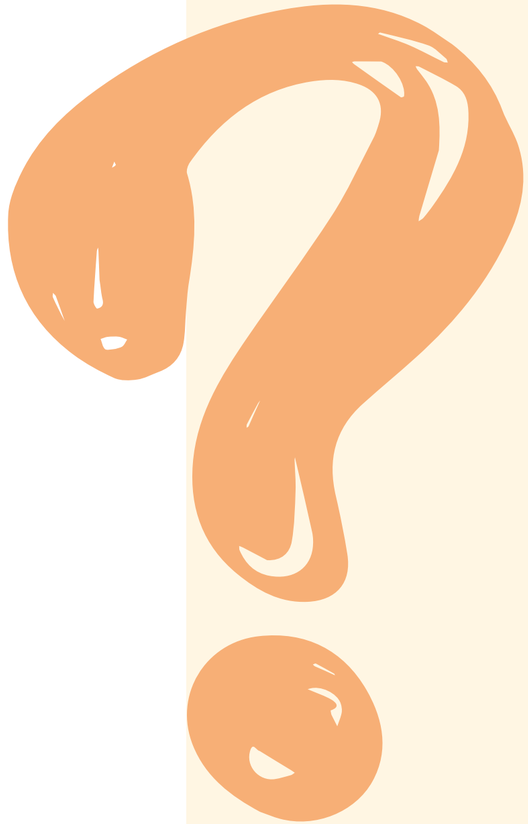
Bad Product  Better Product

The Why

Bad Product → Better Product

EzFacilty → W-IMS

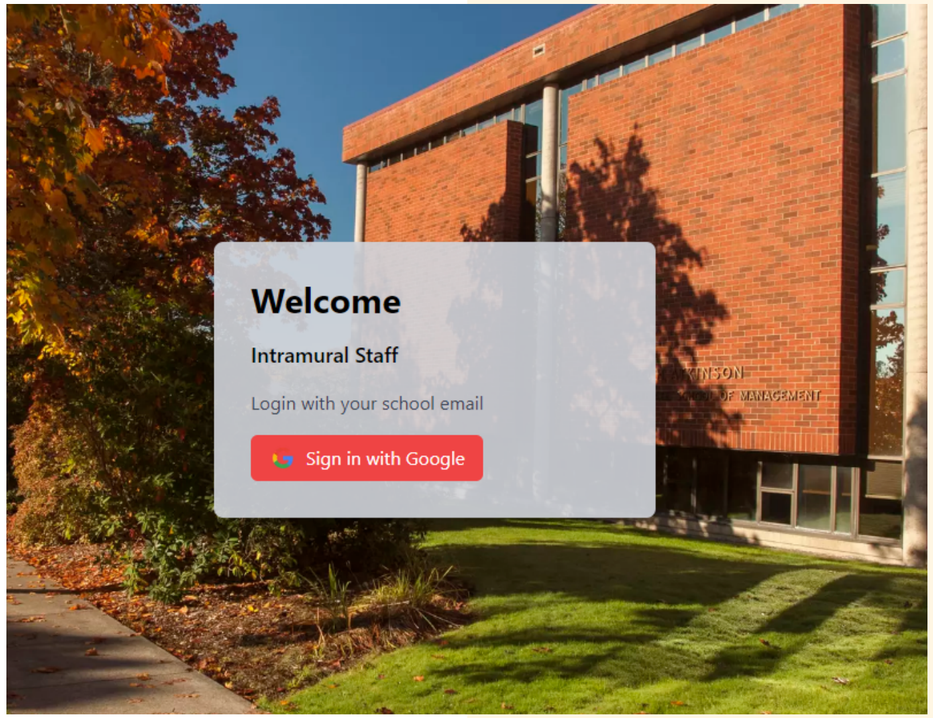
The What



The What

Introducing

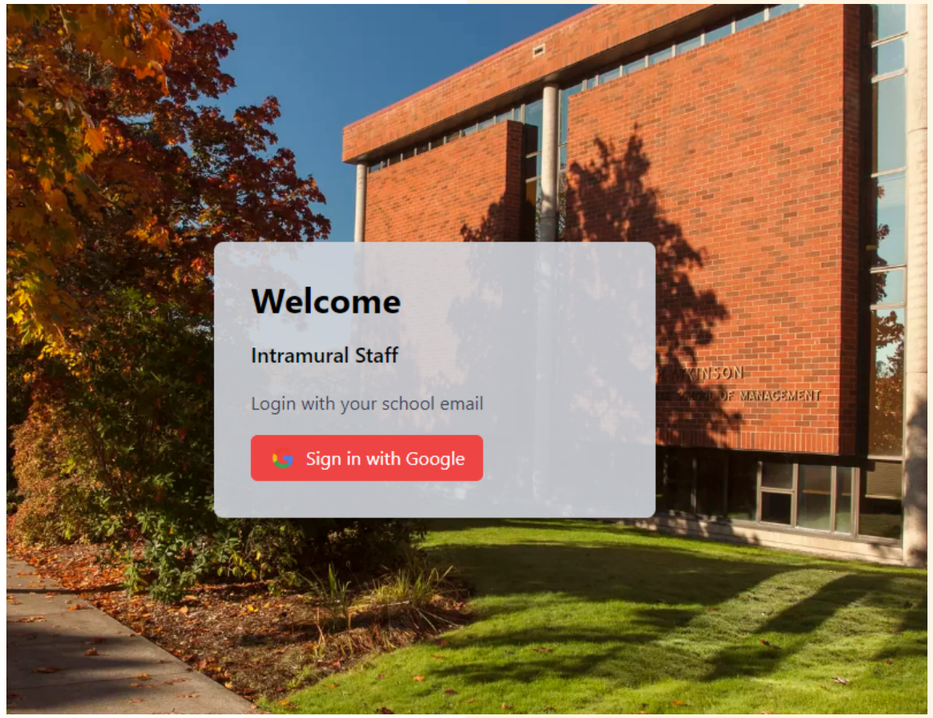
W-IMs



The What

Introducing

W-IMs



SIMPLE

FAST

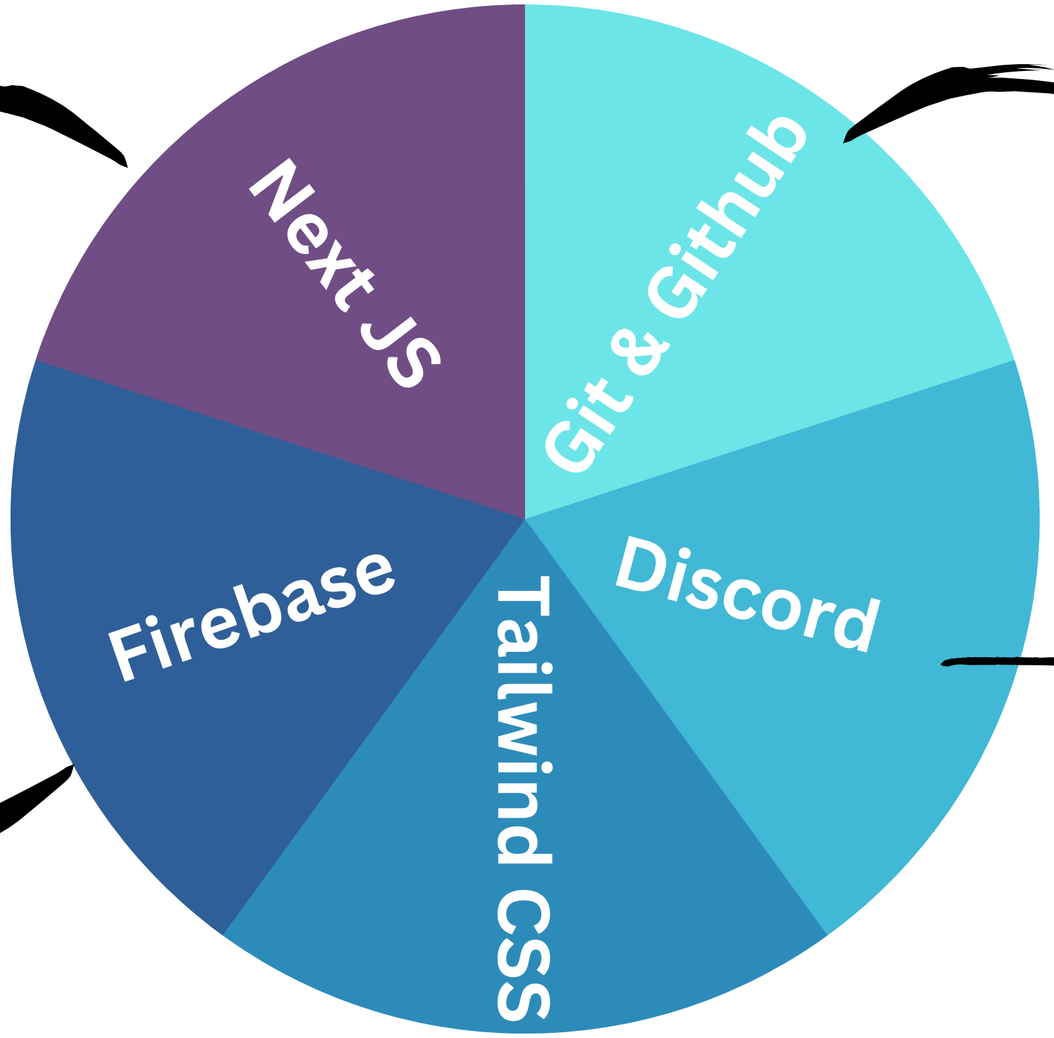
EASY

ELEGANT

The How

The semicolons, the curly brackets and the gibberish

```
export default function Home({user}) {
  const eventsRef = collection(db, "events");

  const [events, setEvents] = useState([]);

  useEffect(() => {
    const unsubscribe = onSnapshot(eventsRef, (snapshot) => {
      const newEvents = snapshot.docs.map((doc) => ({
        id: doc.id,
        ...doc.data(),
      }));
      setEvents(newEvents);
    });

    return () => unsubscribe();
  }, [eventsRef]);
```



Front-end

Management &
Version Control

Backend &
Database

Communication

Design


```
const handleLogin = (userData) => {
  setUser(userData);
  localStorage.setItem("user", JSON.stringify(userData)); // Store user in localStorage
};

const signIn = () => {
  signInWithPopup(auth, provider)
    .then((result) => {
      handleLogin(result.user); // call onLogin with user data
    })
    .catch((error) => alert(error.message));
};

return (
  <>
    {user ? (
      <div className="bg-container max-h-screen">
        <EventCreation user={user} />
      </div>
    ) : (
      <div className="bg-cover bg-center bg-container">
        <div className=" min-h-screen flex items-center justify-center">
          <div className="bg-gray-300 bg-opacity-90 p-8 rounded-lg shadow-lg max-w-sm w-full">
            <h1 className="text-3xl font-bold mb-4">Welcome</h1>
            <h2 className="text-lg font-medium mb-4">Intramural Staff</h2>
            <p className="text-gray-700 mb-4">
              Login with your school email
            </p>
```

- **Improved Search Engine Optimization**
- **Enhanced performance**
- **Lazy loading(Dynamic)**
- **Security is of the highest priority.**
- **Static site generation**

Firebase

- **Firebase Authentication**
- **Performance monitoring**
- **Firestore**

Firebase Authentication via Google sign in

```
import { getAuth, GoogleAuthProvider } from "firebase/auth";
import firebase from "firebase/app";

const firebaseConfig = {
  // Firebase config goes here
};

if (!firebase.apps.length) {
  firebase.initializeApp(firebaseConfig);
}

const auth = getAuth();

const provider = new GoogleAuthProvider();  //Google Authentication
provider.setCustomParameters({
  hd: "willamette.edu"  //Willamette emails only
});
```

Cloud Firestore

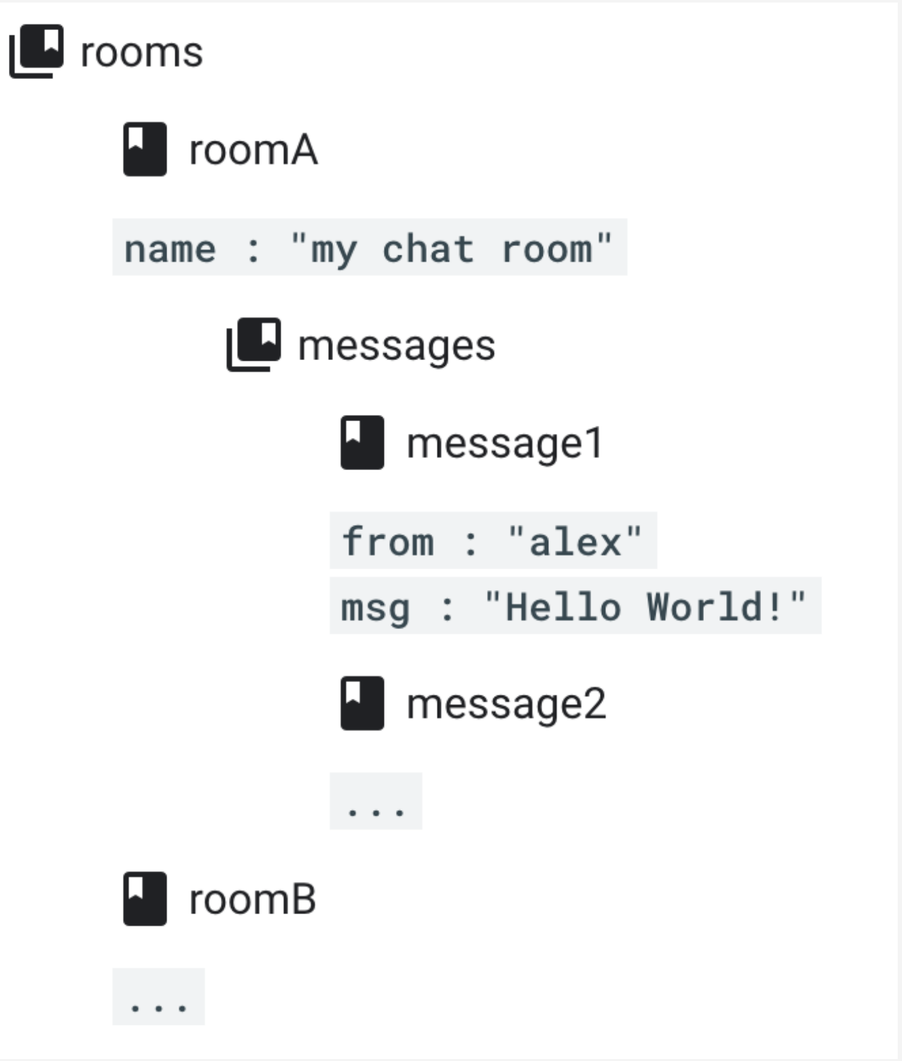
Firestore Advantages:

Flexible data Model

Cloud Firestore

Firestore Advantages:

Flexible data Model

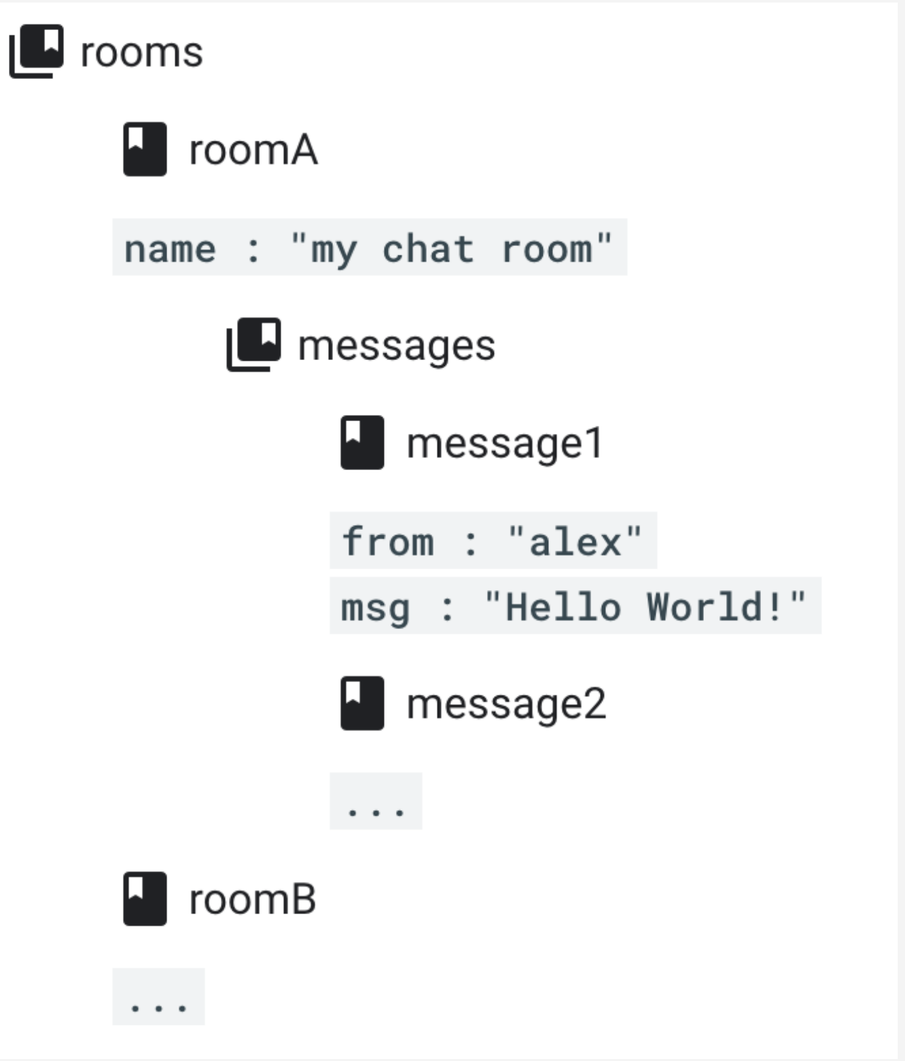


Cloud Firestore

Firestore Advantages:

Flexible data Model

Offline Support



Cloud Storage

Robust Operations

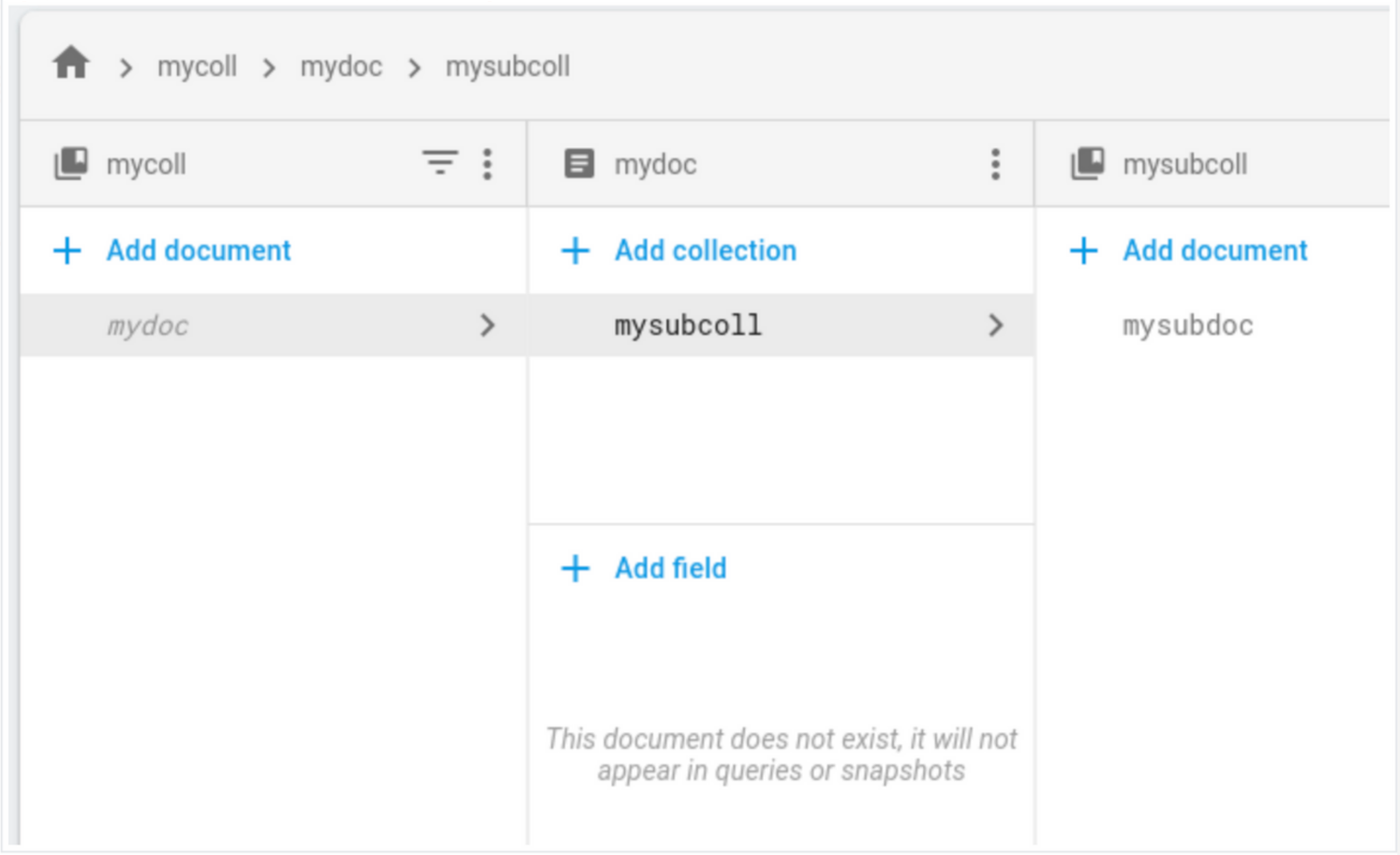
Scalable

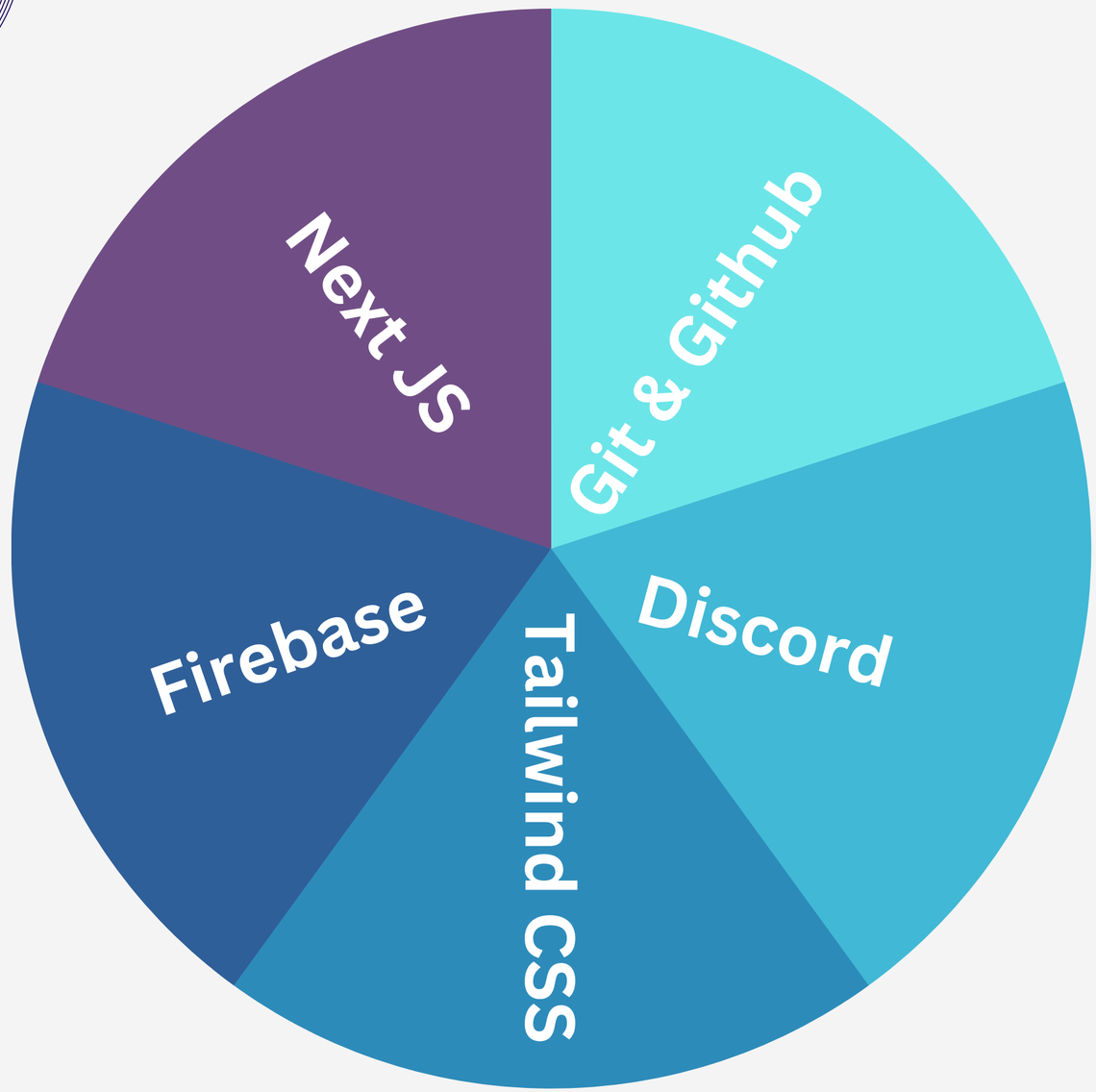
```
const eventscollection = onSnapshot(eventsRef, (snapshot) => {
    const newEvents = snapshot.docs.map((doc) => ({
        id: doc.id,
        ...doc.data(),

    }));
    setEvents(newEvents);
```

Cloud Storage

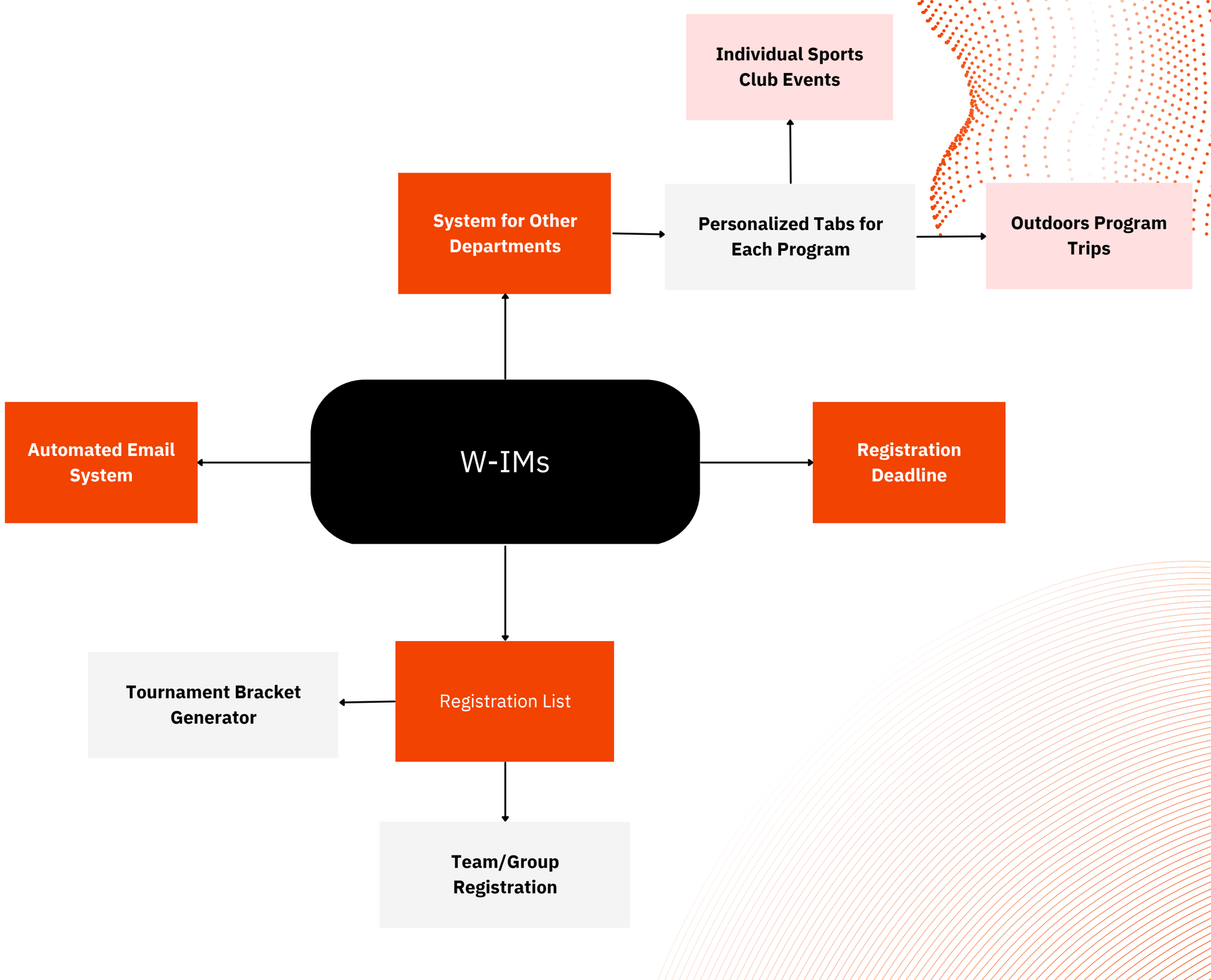
Robust Operations

Scalable




Next JS
Git & Github
Discord
Tailwind CSS
Firebase

What's next?


Individual Sports Club Events
System for Other Departments
Personalized Tabs for Each Program
Outdoors Program Trips
Automated Email System
W-IMs
Registration Deadline
Tournament Bracket Generator
Registration List
Team/Group Registration

Thank You

Questions?