AIBoMGen Frontend

This is a Next.js project bootstrapped with `create-next-app`.

Getting Started

Prerequisites

- **Backend API:** The backend must be running and accessible at the correct URL.
- **Authentication:** The backend **must** have authentication enabled (`AUTH_ENABLED=true`). The frontend will not work without authentication.
- **Azure App Registration:**
  - You need to register an application in Azure AD for the frontend.
  - This app registration must have delegated permissions to access the backend API (the backend's app registration).
  - Configure the required API permissions in Azure and grant admin consent.

Setup

1. **Install dependencies:**

   ```
   npm install
   ```

2. **Run the development server:**

   ```
   npm run dev
   ```

3. **Build and run in production:**

   ```
   npm run build
   npm run start
   ```

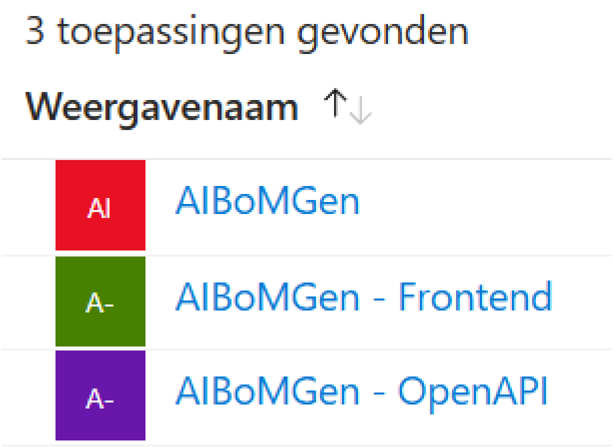
4. Open http://localhost:3000 in your browser.

Authentication

- The frontend uses MSAL (Microsoft Authentication Library) for Azure OAuth authentication.
- Users must sign in with an account that has access to the backend API via the configured Azure App Registrations and permissions.

For the authentication you have to make an extra app registration on Azure on top of the already existing ones for the backend (see backend authentication)

You should have 3 app registrations:



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A-	AIBoMGen - Frontend
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The backend and openapi registration can be done using the FastAPI-Azure-Auth docs

The frontend registration should have the following settings:

- Redirect URL: http://localhost:3000
- API permissions to the AIBoMGen backend API registration (user_impersonation)
- API permissions to use Microsoft Graph for (email, profile, etc)

Configuration

- **MSAL Configuration:**
  Edit `components/configurations/msalConfig.tsx` and set:
  - `clientId` to your frontend Azure App Registration's client ID.
  - `authority` to your Azure tenant or use `common` for multi-tenant.
  - `redirectUri` and `postLogoutRedirectUri` as needed.
  - The `scopes` in `loginRequest` must match the exposed API scope of your backend app registration (e.g., `api://<backend-app-id>/user_impersonation`).
- **API Service:**
  Edit `services/api.tsx` and set:
  - `API_BASE_URL` to your backend's URL (default: `http://localhost:8000`).
  - The `scopes` parameter in API calls must match your backend API's scope.

Learn More

- Next.js Documentation - learn about Next.js features and API.
- Learn Next.js - an interactive Next.js tutorial.
- Next.js GitHub repository
- Next.js deployment documentation