import dayis from "dayis";

import { createClient } from "@supabase/supabase-js";

\_\_\_\_\_ Included: - Prisma schema - Next.js API routes: /api/projects/new.ts, /api/projects/list.ts - Frontend: app/projects/page.tsx (Next.js + Clerk) - Notes & configuration snippets (Supabase, Prisma client, Environment vars) --- Prisma Schema (schema.prisma) --generator client { provider = "prisma-client-js" datasource db { provider = "postgresal" = env("DATABASE\_URL") url model Project { String @id @default(uuid()) configHash String @unique stack String version String features |son? zipUrl String pdfUrl String createdAt DateTime @default(now()) expiresAt DateTime userLinks UserProject[] } model UserProject { String @id @default(uuid()) userId String project Project @relation(fields: [projectId], references: [id], onDelete: Cascade) projectId String createdAt DateTime @default(now()) @@index([userId]) --- Environment Variables (example) ---DATABASE URL="postgresql://user:pass@db:5432/dbname" SUPABASE URL="https://your-supabase-url.supabase.co" SUPABASE KEY="your-service-role-key" PRISMA\_CLIENT\_ENGINE\_TYPE="binary" NEXT\_PUBLIC\_SUPABASE\_URL="https://your-supabase-url.supabase.co" NEXT PUBLIC SUPABASE ANON KEY="your-anon-key" CLERK API KEY="clerk api key" CLERK SECRET KEY="clerk secret" EXPIRY DAYS=7 --- /api/projects/new.ts --import { NextApiRequest, NextApiResponse } from "next"; import { getAuth } from "@clerk/nextjs/server"; import { PrismaClient } from "@prisma/client"; import crypto from "crypto";

```
const prisma = new PrismaClient();
const supabase = createClient(process.env.SUPABASE URL!, process.env.SUPABASE KEY!);
const DAILY LIMIT = 3;
export default async function handler(reg: NextApiRequest, res: NextApiResponse) {
  const { userId } = getAuth(req);
  if (!userId) return res.status(401).json({ error: "Unauthorized" });
  if (req.method !== "POST") return res.status(405).json({ error: "Method not allowed" });
  const { stack, version, features } = req.body;
  if (!stack || !version) return res.status(400).json({ error: "stack and version required" });
  // rate limit: count today
  const startOfDay = dayjs().startOf("day").toDate();
  const userCount = await prisma.userProject.count({
   where: { userId, createdAt: { gte: startOfDay } }
  if (userCount >= DAILY LIMIT) return res.status(429).json({ error: "Daily limit reached" });
  const hash = crypto.createHash("sha256")
   .update(JSON.stringify({ stack, version, features }))
   .digest("hex");
  const existing = await prisma.project.findUnique({ where: { configHash: hash } });
  const expiresAt = dayjs().add(Number(process.env.EXPIRY DAYS || 7), "day").toDate();
  if (existing) {
   // update expiry
   await prisma.project.update({
    where: { id: existing.id },
    data: { expiresAt }
   });
   // link to user if not already linked
   await prisma.userProject.create({
    data: { userId, projectId: existing.id }
   }).catch(()=>{});
   return res.status(200).json({ zipUrl: existing.zipUrl, pdfUrl: existing.pdfUrl, projectId:
existing.id });
  }
  // Trigger generation: call Express backend or internal generator
  // Example: POST to external generator service (pseudo)
  // const generatorRes = await fetch(process.env.GENERATOR URL + "/generate", { method: "POST",
body: JSON.stringify({stack, version, features}), headers: {"Content-Type":"application/json"}});
  // const { zipBuffer, pdfBuffer, zipName, pdfName } = await generatorRes.json();
  // For this template, assume generator returned signed URLs and file buffers.
  // Upload to Supabase Storage (example)
  const zipName = `projects/${hash}.zip`;
  const pdfName = `projects/${hash}.pdf`;
  // Placeholder: you would upload actual buffers here.
  // await supabase.storage.from("projects").upload(zipName, zipBuffer, { upsert: true });
  // await supabase.storage.from("projects").upload(pdfName, pdfBuffer, { upsert: true });
  const { data: zipPublic } = supabase.storage.from("projects").getPublicUrl(zipName);
  const { data: pdfPublic } = supabase.storage.from("projects").getPublicUrl(pdfName);
```

```
const created = await prisma.project.create({
    data: {
     configHash: hash,
     stack,
     version,
     features,
     zipUrl: zipPublic.publicUrl | "",
     pdfUrl: pdfPublic.publicUrl || "",
     expiresAt
    }
  });
  await prisma.userProject.create({
   data: { userId, projectId: created.id }
  });
  return res.status(201).json({ zipUrl: created.zipUrl, pdfUrl: created.pdfUrl, projectId:
created.id });
 } catch (err) {
  console.error(err);
  return res.status(500).json({ error: "Internal server error" });
  // prisma.$disconnect(); // avoid disconnecting in serverless hot reloader
}
--- /api/projects/list.ts ---
import { NextApiRequest, NextApiResponse } from "next";
import { getAuth } from "@clerk/nextjs/server";
import { PrismaClient } from "@prisma/client";
const prisma = new PrismaClient();
export default async function handler(req: NextApiRequest, res: NextApiResponse) {
 try {
  const { userId } = getAuth(req);
  if (!userId) return res.status(401).json({ error: "Unauthorized" });
  const links = await prisma.userProject.findMany({
    where: { userId },
    include: { project: true },
    orderBy: { createdAt: "desc" }
  });
  const formatted = links.map(lp => ({
    id: lp.id,
    projectld: lp.projectld,
    zipUrl: lp.project.zipUrl,
    pdfUrl: lp.project.pdfUrl,
    stack: lp.project.stack,
    version: lp.project.version,
    features: lp.project.features,
    createdAt: lp.createdAt,
    expiresAt: lp.project.expiresAt
  }));
  res.status(200).json({ projects: formatted });
 } catch (err) {
  console.error(err);
  res.status(500).json({ error: "Internal server error" });
 }
```

```
}
--- Frontend: app/projects/page.tsx (Next 13+ /app router) ---
"use client";
import React, { useEffect, useState } from "react";
import { useAuth, ClerkLoaded, useUser } from "@clerk/nextjs";
import axios from "axios";
type Project = {
 id: string;
 projectld: string;
 zipUrl: string;
 pdfUrl: string;
 stack: string;
 version: string;
 features: any;
 createdAt: string;
 expiresAt: string;
};
export default function ProjectsPage() {
 const [projects, setProjects] = useState<Project[]>([]);
 const [loading, setLoading] = useState(false);
 const [error, setError] = useState<string | null>(null);
 async function fetchProjects() {
  setLoading(true);
  try {
   const res = await axios.get("/api/projects/list");
   setProjects(res.data.projects || []);
  } catch (e:any) {
   setError(e.message);
  } finally { setLoading(false); }
 useEffect(() => { fetchProjects(); }, []);
 return (
  <div className="p-6">
   <h1 className="text-2xl font-bold mb-4">Your Generated Projects</h1>
   {loading && Loading...}
   {error && {error}}
   <div className="space-y-4">
    \{projects.map(p => (
      <div key={p.id} className="border rounded p-4">
       <div className="flex justify-between items-start">
        <div>
         <h2 className="font-semibold">{p.stack} — v{p.version}</h2>
         Features: {|SON.stringify(p.features)}
         Expires: {new
Date(p.expiresAt).toLocaleString()}
        </div>
        <div className="space-x-2">
         <a href={p.zipUrl} target=" blank" rel="noreferrer" className="underline">Download
ZIP</a>
         <a href={p.pdfUrl} target=" blank" rel="noreferrer" className="underline">Download
PDF</a>
        </div>
       </div>
      </div>
```

```
))}
</div>
</div>
);
}
```

- --- Notes & Next Steps ---
- 1. Generator service: implement an Express service that accepts a config, builds a project scaffolding (use templates or Yeoman-like generators), zips the folder, and returns buffers to be uploaded to Supabase Storage.
- 2. Use Supabase service role key on server-side only.
- 3. Cron job: use Supabase Edge Functions, Vercel cron, or a lightweight worker to delete expired projects and remove files from storage.
- 4. Testing: seed Prisma, test rate-limiting, and confirm Clerk headers in Next.js requests.
- 5. Security: ensure Supabase keys never reach the client, and consider signed URLs with limited expiry for downloads.

End of document.