

Mini Buyer Lead Intake App - Assignment Solution

1) Project layout

```
buyer-leads/
├── app/
│   ├── leads/
│   │   ├── page.tsx
│   │   ├── create/page.tsx
│   │   ├── [id]/page.tsx
│   │   ├── [id]/edit/page.tsx
│   │   ├── import/
│   │   │   ├── page.tsx
│   │   └── api/
│   │       ├── leads/
│   │       │   ├── route.ts
│   │       │   └── import/route.ts
│   │       └── auth/route.ts
│   └── lib/
│       ├── prisma.ts
│       ├── zod-schemas.ts
│       ├── auth.ts
│       ├── rateLimit.ts
│       ├── csv.ts
│       └── prisma/
│           ├── schema.prisma
│           └── migrations/...
├── tests/
│   └── csv-validator.test.ts
├── package.json
├── tsconfig.json
└── README.md
```

2) Prisma Schema

```
generator client {
  provider = "prisma-client-js"
}
...
```

3) Zod Schema

```
import { z } from "zod";

export const BuyerCreateSchema = z.object({
  name: z.string().min(2).max(80),
  phone: z.string().min(10).max(15).regex(/^\d+$/, "Phone must be numeric"),
  ...
});
```

4) Create Lead Route

```
export async function POST(req: Request) {
  const user = await getUserFromReq(req);
  if (!user) return NextResponse.json({ error: "Unauthorized" }, { status: 401 });
  ...
}
```

5) Edit Lead Route

```
export async function PATCH(req: Request) {
  const user = await getUserFromReq(req);
```

```

    if (!user) return NextResponse.json({ error: "Unauthorized" }, { status: 401 });
    ...
}

```

6) SSR List Page

```

export default async function LeadsPage({ searchParams }) {
  const page = Number(searchParams?.page ?? 1);
  ...
}

```

7) View & Edit Pages

View page shows buyer details and history. Edit page has optimistic concurrency control.

8) CSV Import / Export

```

export async function POST(req: Request) {
  const user = await getUserFromReq(req);
  if (!user) return NextResponse.json({ error: "Unauthorized" }, { status: 401 });
  ...
}

```

9) Auth & Ownership

Demo auth with cookie, ownership check on edit/delete, read allowed for all logged-in users.

10) Rate limiting

```

export async function rateLimit(key: string) {
  const now = Date.now();
  ...
}

```

11) Unit test Example

```

describe("CSV row validator", () => {
  it("accepts valid row", () => { ... });
  it("rejects short name", () => { ... });
});

```

12) Accessibility & Error boundary

Add labels, aria-invalid, role='alert' for form errors, focus management, error boundaries.

13) Nice-to-haves

Tag chips with typeahead, status quick-actions, basic full-text search.

14) README

```

# Buyer Lead Intake (mini)
## Setup
- Clone repo
- npm install

```

```
- npx prisma migrate dev
- npm run dev
...
```

15) Commit History

```
git commit -m "chore: initial project scaffold"
git commit -m "feat(db): add Prisma schema"...
```

16) Quick Tips

Use Postgres by changing DATABASE_URL. Arrays differ in Postgres vs SQLite. Redis for real rate limiting.