

Directory Structure:

```
README.md
cadastros.html
consultar-frequencias-turma.html
css/
  style.css
data/
  alunos.json
  presencas.json
  turmas.json
index.html
js/
  controller.js
  model.js
  view.js
marcar-presenca.html
package-lock.json
package.json
relatorio-frequencias-aluno.html
server.js
vercel.json
```

File: js\model.js

```
=====

// js/model.js
const Model = {
  API_URL: "/api",

  async getTurmas() {
    try {
      const response = await fetch(`${this.API_URL}/turmas`);
      if (!response.ok) throw new Error("Erro ao buscar turmas");
      return await response.json();
    } catch (error) {
      console.error("Erro ao buscar turmas:", error);
      return [];
    }
  },

  async addTurma(nome, turno) {
    try {
      const response = await fetch(`${this.API_URL}/turmas`, {
        method: "POST",
        headers: { "Content-Type": "application/json" },
        body: JSON.stringify({ nome, turno }),
      });
      if (!response.ok) throw new Error("Erro ao criar turma");
      return await response.json();
    } catch (error) {
      console.error("Erro ao adicionar turma:", error);
      return null;
    }
  },

  async getAlunos() {
    try {
      const response = await fetch(`${this.API_URL}/alunos`);
      if (!response.ok) throw new Error("Erro ao buscar alunos");
      return await response.json();
    } catch (error) {
      console.error("Erro ao buscar alunos:", error);
      return [];
    }
  },

  async getAlunosByTurma(turmaId) {
    try {
      const response = await fetch(`${this.API_URL}/alunos/turma/${turmaId}`);
      if (!response.ok) throw new Error("Erro ao buscar alunos da turma");
      return await response.json();
    } catch (error) {
      console.error("Erro ao buscar alunos da turma:", error);
      return [];
    }
  }
}
```

```

    }
  },

  async addAluno(nome, turmaId) {
    try {
      const response = await fetch(`${this.API_URL}/alunos`, {
        method: "POST",
        headers: { "Content-Type": "application/json" },
        body: JSON.stringify({ nome, turmaId }),
      });
      if (!response.ok) throw new Error("Erro ao criar aluno");
      return await response.json();
    } catch (error) {
      console.error("Erro ao adicionar aluno:", error);
      return null;
    }
  },

  async registrarPresencas(turmaId, data, registros) {
    try {
      const response = await fetch(`${this.API_URL}/presencas`, {
        method: "POST",
        headers: { "Content-Type": "application/json" },
        body: JSON.stringify({ turmaId, data, registros }),
      });
      if (!response.ok) throw new Error("Erro ao registrar presenças");
      return await response.json();
    } catch (error) {
      console.error("Erro ao registrar presenças:", error);
      return null;
    }
  },

  async getPresencasByTurmaData(turmaId, data) {
    try {
      const response = await fetch(`${this.API_URL}/presencas/turma/${turmaId}/data/${data}`);
      if (!response.ok) throw new Error("Erro ao buscar presenças");
      return await response.json();
    } catch (error) {
      console.error("Erro ao buscar presenças:", error);
      return [];
    }
  },

  async getPresencasByAluno(alunoId) {
    try {
      const response = await fetch(`${this.API_URL}/presencas/aluno/${alunoId}`);
      if (!response.ok) throw new Error("Erro ao buscar presenças do aluno");
      return await response.json();
    } catch (error) {
      console.error("Erro ao buscar presenças do aluno:", error);
      return [];
    }
  }
}

```

```
},  
  
formatarData(data) {  
  if (data instanceof Date) {  
    return data.toISOString().split("T")[0];  
  }  
  return data;  
},  
};
```

File: README.md

Controle de Frequência de Alunos

Este projeto é uma atividade da disciplina de Arquitetura de Software da UNIRV, no curso de Engenharia de Software.

Objetivo

Desenvolver um sistema para controle de presença de alunos, com as seguintes funcionalidades:

- Cadastro de turmas
- Cadastro de alunos (associados a uma turma)
- Marcação de presença por data (a ser implementado)
- Consulta de frequência (a ser implementado)
- Relatório por aluno (a ser implementado)

Arquitetura

O sistema utiliza uma **Arquitetura em Camadas (MVC)** com Backend:

- **Model**: Gerencia dados e interage com o backend via API
- **View**: HTML com Bootstrap para uma interface simples e responsiva
- **Controller**: Conecta eventos da interface com as ações do Model
- **Backend**: API RESTful com Express.js e persistência em arquivos JSON

Decisões de Projeto

- **HTML, CSS e JS**: para interface simples e responsiva
- **Bootstrap**: para uma interface com mínima codificação CSS
- **Express.js**: framework backend leve e eficiente
- **API REST**: para separação clara entre frontend e backend
- **Persistência em arquivos JSON**: solução simples sem necessidade de configurar banco de dados

Tecnologias Utilizadas

- **Frontend**: HTML, CSS, JavaScript (vanilla)
- **CSS Framework**: Bootstrap 5
- **Backend**: Node.js, Express.js
- **Persistência**: Arquivos JSON
- **Ferramentas**: UUID para geração de IDs, CORS para comunicação cross-origin

Como usar

1. Instale o Node.js (<https://nodejs.org>)
2. Clone o repositório
3. Instale as dependências:

...

```
npm install
```

...

4. Inicie o servidor:

...

```
npm start
```

...

5. Acesse o sistema em `http://localhost:3000`

Estrutura do Projeto

...

```
controle-frequencia/  
  data/          # Armazenamento de dados (JSON)  
    alunos.json  
    turmas.json  
  public/        # Frontend  
    css/  
      style.css  
    js/  
      model.js  
      view.js  
      controller.js  
    index.html  
  server.js      # Servidor Express  
  package.json   # Configuração do projeto  
  README.md
```

...

Desenvolvido por Marques Vinícius Melo Martins

File: data\presencas.json

=====

```
[
  {
    "turmalid": "3cebf705-9b90-4d09-9e47-5eae49238b9f",
    "data": "2025-04-06",
    "registros": [
      {
        "alunold": "903e095c-8365-4f2f-b0b3-d919db47977d",
        "presente": true
      }
    ]
  },
  {
    "turmalid": "a9575ad5-5fce-44c8-9296-a8c4b97c824b",
    "data": "2025-04-06",
    "registros": [
      {
        "alunold": "4199203e-71e1-4989-b724-6014ec95d735",
        "presente": true
      },
      {
        "alunold": "77eea2ed-a45f-4b7b-b552-14e1eb517db4",
        "presente": true
      }
    ]
  },
  {
    "turmalid": "493225ed-63bc-4eb8-a0a4-644499c3e7a4",
    "data": "2025-04-06",
    "registros": [
      {
        "alunold": "46c76137-7cea-40fc-b224-8c894d140bfb",
        "presente": true
      },
      {
        "alunold": "e84c6839-7a45-4cb6-af4b-0df17b284f3a",
        "presente": true
      }
    ]
  }
]
```

File: data\alunos.json

=====

```
[
  {
    "id": "4199203e-71e1-4989-b724-6014ec95d735",
    "nome": "Aline",
    "turmaId": "a9575ad5-5fce-44c8-9296-a8c4b97c824b",
    "dataCadastro": "2025-04-06T23:33:49.103Z"
  },
  {
    "id": "77eea2ed-a45f-4b7b-b552-14e1eb517db4",
    "nome": "Avidal",
    "turmaId": "a9575ad5-5fce-44c8-9296-a8c4b97c824b",
    "dataCadastro": "2025-04-06T23:34:21.906Z"
  },
  {
    "id": "46c76137-7cea-40fc-b224-8c894d140bfb",
    "nome": "Bruno",
    "turmaId": "493225ed-63bc-4eb8-a0a4-644499c3e7a4",
    "dataCadastro": "2025-04-06T23:36:01.591Z"
  },
  {
    "id": "e84c6839-7a45-4cb6-af4b-0df17b284f3a",
    "nome": "Breno",
    "turmaId": "493225ed-63bc-4eb8-a0a4-644499c3e7a4",
    "dataCadastro": "2025-04-06T23:36:07.325Z"
  }
]
```


File: vercel.json

```
=====

{
  "version": 2,
  "builds": [
    {
      "src": "server.js",
      "use": "@vercel/node"
    },
    {
      "src": "*.html",
      "use": "@vercel/static"
    },
    {
      "src": "css/**",
      "use": "@vercel/static"
    },
    {
      "src": "js/**",
      "use": "@vercel/static"
    }
  ],
  "routes": [
    {
      "src": "/api/(.*)",
      "dest": "/server.js"
    },
    {
      "src": "/(.*)",
      "dest": "/$1",
      "headers": {
        "Cache-Control": "no-cache"
      }
    },
    {
      "src": "/(.*)",
      "dest": "/index.html"
    }
  ]
}
```

File: css\style.css

=====

File: server.js

```
=====

// server.js
const express = require("express");
const cors = require("cors");
const { createClient } = require("@supabase/supabase-js");

const app = express();
const PORT = process.env.PORT || 3000;

// Configuração do Supabase
const supabaseUrl = process.env.SUPABASE_URL;
const supabaseKey = process.env.SUPABASE_SERVICE_ROLE_KEY;
const supabase = createClient(supabaseUrl, supabaseKey);

// Middleware
app.use(cors());
app.use(express.json());

// API Routes para Turmas
app.get("/api/turmas", async (req, res) => {
  const { data, error } = await supabase.from("turmas").select("*");
  if (error) {
    console.error("Erro ao buscar turmas:", error);
    return res.status(500).json({ error: "Erro ao buscar turmas" });
  }
  res.json(data);
});

app.post("/api/turmas", async (req, res) => {
  const { nome, turno } = req.body;
  if (!nome || !turno) {
    return res.status(400).json({ error: "Nome e turno são obrigatórios" });
  }
  const { data, error } = await supabase
    .from("turmas")
    .insert([ { nome, turno } ])
    .select();
  if (error) {
    console.error("Erro ao criar turma:", error);
    return res.status(500).json({ error: "Erro ao criar turma" });
  }
  res.status(201).json(data[0]);
});

// API Routes para Alunos
app.get("/api/alunos", async (req, res) => {
  const { data, error } = await supabase.from("alunos").select("*");
  if (error) {
    console.error("Erro ao buscar alunos:", error);
    return res.status(500).json({ error: "Erro ao buscar alunos" });
  }
});
```

```
}  
res.json(data);  
});
```

```
app.get("/api/alunos/turma/:turmaid", async (req, res) => {  
  const { turmaid } = req.params;  
  const { data, error } = await supabase  
    .from("alunos")  
    .select("*")  
    .eq("turma_id", turmaid);  
  if (error) {  
    console.error("Erro ao buscar alunos da turma:", error);  
    return res.status(500).json({ error: "Erro ao buscar alunos da turma" });  
  }  
  res.json(data);  
});
```

```
app.post("/api/alunos", async (req, res) => {  
  const { nome, turmaid } = req.body;  
  if (!nome || !turmaid) {  
    return res.status(400).json({ error: "Nome e turmaid são obrigatórios" });  
  }  
  const { data: turma, error: turmaError } = await supabase  
    .from("turmas")  
    .select("id")  
    .eq("id", turmaid)  
    .single();  
  if (turmaError || !turma) {  
    return res.status(404).json({ error: "Turma não encontrada" });  
  }  
  const { data, error } = await supabase  
    .from("alunos")  
    .insert([ { nome, turma_id: turmaid } ])  
    .select();  
  if (error) {  
    console.error("Erro ao criar aluno:", error);  
    return res.status(500).json({ error: "Erro ao criar aluno" });  
  }  
  res.status(201).json(data[0]);  
});
```

// API Routes para Presenças

```
app.get("/api/presencas", async (req, res) => {  
  const { data, error } = await supabase.from("presencas").select("*");  
  if (error) {  
    console.error("Erro ao buscar presenças:", error);  
    return res.status(500).json({ error: "Erro ao buscar presenças" });  
  }  
  res.json(data);  
});
```

```
app.get("/api/presencas/turma/:turmaid/data/:data", async (req, res) => {  
  const { turmaid, data } = req.params;
```

```

const { data: presencas, error } = await supabase
  .from("presencas")
  .select("*")
  .eq("turma_id", turmaId)
  .eq("data", data);
if (error) {
  console.error("Erro ao buscar presenças:", error);
  return res.status(500).json({ error: "Erro ao buscar presenças" });
}
res.json(presencas);
});

app.get("/api/presencas/aluno/:alunoId", async (req, res) => {
  const { alunoId } = req.params;
  const { data: presencas, error } = await supabase
    .from("presencas")
    .select("data, turma_id, registros");
  if (error) {
    console.error("Erro ao buscar presenças do aluno:", error);
    return res.status(500).json({ error: "Erro ao buscar presenças do aluno" });
  }
  const historicoAluno = presencas
    .filter((p) => p.registros.some((r) => r.alunoId === alunoId))
    .map((p) => {
      const registro = p.registros.find((r) => r.alunoId === alunoId);
      return {
        data: p.data,
        turmaId: p.turma_id,
        presente: registro.presente,
      };
    });
  res.json(historicoAluno);
});

app.post("/api/presencas", async (req, res) => {
  const { turmaId, data, registros } = req.body;
  if (!turmaId || !data || !registros || !Array.isArray(registros)) {
    return res.status(400).json({
      error: "Dados incompletos. Forneça turmaId, data e um array de registros",
    });
  }
  for (const registro of registros) {
    if (!registro.alunoId || typeof registro.presente !== "boolean") {
      return res.status(400).json({
        error: "Cada registro deve ter alunoId e status de presença (boolean)",
      });
    }
  }
  const { data: existing, error: checkError } = await supabase
    .from("presencas")
    .select("id")
    .eq("turma_id", turmaId)
    .eq("data", data)

```

```

    .single();
  if (checkError && checkError.code !== "PGRST116") {
    console.error("Erro ao verificar presença existente:", checkError);
    return res.status(500).json({ error: "Erro ao verificar presenças" });
  }
  if (existing) {
    const { data, error } = await supabase
      .from("presencas")
      .update({ registros })
      .eq("id", existing.id)
      .select();
    if (error) {
      console.error("Erro ao atualizar presenças:", error);
      return res.status(500).json({ error: "Erro ao atualizar presenças" });
    }
    res.status(200).json(data[0]);
  } else {
    const { data, error } = await supabase
      .from("presencas")
      .insert([{ turma_id: turmaId, data, registros }])
      .select();
    if (error) {
      console.error("Erro ao registrar presenças:", error);
      return res.status(500).json({ error: "Erro ao registrar presenças" });
    }
    res.status(201).json(data[0]);
  }
});

// Iniciar o servidor
app.listen(PORT, () => {
  console.log(`Server running on http://localhost:${PORT}`);
});

```

File: index.html

```
=====

<!DOCTYPE html>
<html lang="pt-BR">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Controle de Frequência - Menu</title>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">
  <link rel="stylesheet" href="/css/style.css">
</head>
<body>
  <div class="container py-5">
    <h1 class="text-center mb-5">Controle de Frequência</h1>
    <div class="row justify-content-center">
      <div class="col-md-8">
        <div class="d-grid gap-3">
          <a href="/cadastros.html" class="btn btn-primary btn-lg">Cadastros</a>
          <a href="/marcar-presenca.html" class="btn btn-primary btn-lg">Marcar Presença</a>
          <a href="/consultar-frequencias-turma.html" class="btn btn-primary btn-lg">Consultar Frequências por Turma</a>
          <a href="/relatorio-frequencias-aluno.html" class="btn btn-primary btn-lg">Relatório de Frequências por Aluno</a>
        </div>
      </div>
    </div>
  </div>
</body>
</html>
```

File: package-lock.json

```
=====

{
  "name": "controle-frequencia",
  "version": "1.0.0",
  "lockfileVersion": 3,
  "requires": true,
  "packages": {
    "": {
      "name": "controle-frequencia",
      "version": "1.0.0",
      "license": "MIT",
      "dependencies": {
        "@supabase/supabase-js": "^2.49.4",
        "cors": "^2.8.5",
        "express": "^4.18.2",
        "uuid": "^9.0.1"
      },
      "devDependencies": {
        "nodemon": "^3.0.1"
      }
    },
    "node_modules/@supabase/auth-js": {
      "version": "2.69.1",
      "resolved": "https://registry.npmjs.org/@supabase/auth-js/-/auth-js-2.69.1.tgz",
      "integrity": "sha512-FILtt5WjCNzmReeRLq5wRs3iShwmnWgBvxHfqapC/VoljJl+W8hDAyFmf1NVw3zH+ZjZ05AKxiKxVeb0H",
      "dependencies": {
        "@supabase/node-fetch": "^2.6.14"
      }
    },
    "node_modules/@supabase/functions-js": {
      "version": "2.4.4",
      "resolved": "https://registry.npmjs.org/@supabase/functions-js/-/functions-js-2.4.4.tgz",
      "integrity": "sha512-WL2p6r4AXNGwop7iwwul2BvOtuJ1YQy8EbOd0dhG1oN1q8el/BIRSFCFnWAMM/vJJIHWLi4ad22sKbKrS",
      "dependencies": {
        "@supabase/node-fetch": "^2.6.14"
      }
    },
    "node_modules/@supabase/node-fetch": {
      "version": "2.6.15",
      "resolved": "https://registry.npmjs.org/@supabase/node-fetch/-/node-fetch-2.6.15.tgz",
      "integrity": "sha512-1ibVeYUacxWYi9i0cf5efil2adJ9WRyZBLivgjs+AUpewx1F3xPi7gLgaASl2SmlQxPoCEjAsLAzKPgMJVgO",
      "dependencies": {
        "whatwg-url": "^5.0.0"
      }
    },
    "node_modules/@supabase/postgrest-js": {
      "version": "1.19.4",

```



```
"resolved": "https://registry.npmjs.org/@supabase/postgrest-js/-/postgrest-js-1.19.4.tgz",
"integrity": "sha512-O4soKqKtZiW3olqmbXXbKugUtByD2jPa8kL2m2c1oozAO11uCcGrRhkZL0kVxjBLrXHE0mdSkFsMj7jDS",
"dependencies": {
  "@supabase/node-fetch": "^2.6.14"
},
},
"node_modules/@supabase/realtime-js": {
  "version": "2.11.2",
  "resolved": "https://registry.npmjs.org/@supabase/realtime-js/-/realtime-js-2.11.2.tgz",
  "integrity": "sha512-u/XeUL2Y0QEHXSoIPZZwR6wMXgB+RQbJzG9VgErA3VghVt7uRfSVsjeqd7m5GhX3JR6dM/WRmLbVR8",
  "dependencies": {
    "@supabase/node-fetch": "^2.6.14",
    "@types/phoenix": "^1.5.4",
    "@types/ws": "^8.5.10",
    "ws": "^8.18.0"
  },
},
"node_modules/@supabase/storage-js": {
  "version": "2.7.1",
  "resolved": "https://registry.npmjs.org/@supabase/storage-js/-/storage-js-2.7.1.tgz",
  "integrity": "sha512-asYHcyDR1fKqrMpytAS1zjyEfvxUOlP1CIXX7ji4IHHcJKqyk+sLI/Vxgm4sN6u8zvuUtae9e4kDxQP2qrwWB",
  "dependencies": {
    "@supabase/node-fetch": "^2.6.14"
  },
},
"node_modules/@supabase/supabase-js": {
  "version": "2.49.4",
  "resolved": "https://registry.npmjs.org/@supabase/supabase-js/-/supabase-js-2.49.4.tgz",
  "integrity": "sha512-jUF0uRUmS8BKt37t01qaZ88H9yV1mbGYnqLeuFWLcdV+x1P4fl0yP9DGtaEhFPZcwSom7u16GkLEH9C",
  "dependencies": {
    "@supabase/auth-js": "2.69.1",
    "@supabase/functions-js": "2.4.4",
    "@supabase/node-fetch": "2.6.15",
    "@supabase/postgrest-js": "1.19.4",
    "@supabase/realtime-js": "2.11.2",
    "@supabase/storage-js": "2.7.1"
  },
},
"node_modules/@types/node": {
  "version": "22.14.0",
  "resolved": "https://registry.npmjs.org/@types/node/-/node-22.14.0.tgz",
  "integrity": "sha512-Kmpl+z84lLoG+3T/zQFyAJsU6EPTmOCj8/2+83fSN6djd6l4o7uOuGIH6vq3PrjY5BGitSbFuMN18jiknub",
  "dependencies": {
    "undici-types": "~6.21.0"
  },
},
"node_modules/@types/phoenix": {
  "version": "1.6.6",
  "resolved": "https://registry.npmjs.org/@types/phoenix/-/phoenix-1.6.6.tgz",
  "integrity": "sha512-PlZZIEppgrpoT2QgbnDU+MMzuR6BbCjllj0bM70IWoejMeNJAxCchxnv7J3XFkl8MpygtRpzXrllmWUBclF",
},
"node_modules/@types/ws": {
  "version": "8.18.1",
```

```

"resolved": "https://registry.npmjs.org/@types/ws/-/ws-8.18.1.tgz",
"integrity": "sha512-ThVF6DCVhA8kUGy+aazFQ4kXQ7E1Ty7A3ypFOe0lcJV8O/M511G99AW24irKrW56Wt44yG9+ij8FaqoB",
"dependencies": {
  "@types/node": "*"
},
},
"node_modules/accepts": {
  "version": "1.3.8",
  "resolved": "https://registry.npmjs.org/accepts/-/accepts-1.3.8.tgz",
  "integrity": "sha512-2U7E5C+o6hV1Vn17/H1b5W2e6S26E7/3ZRXhGQJkNj+03sPbQlH+0uUfUoChmBQZ3xK6QlGK0K1D/0A==",
  "dependencies": {
    "mime-types": "~2.1.34",
    "negotiator": "0.6.3"
  },
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/anymatch": {
  "version": "3.1.3",
  "resolved": "https://registry.npmjs.org/anymatch/-/anymatch-3.1.3.tgz",
  "integrity": "sha512-KMReFUr0B4t+D+OBkjR3KYqvocp2XaSzO55UcB6mgQMd3KbcE+mWTyvVV7D/zsdEbNnV6acZUutkiH",
  "dev": true,
  "dependencies": {
    "normalize-path": "^3.0.0",
    "picomatch": "^2.0.4"
  },
  "engines": {
    "node": ">= 8"
  }
},
"node_modules/array-flatten": {
  "version": "1.1.1",
  "resolved": "https://registry.npmjs.org/array-flatten/-/array-flatten-1.1.1.tgz",
  "integrity": "sha512-PCVAQswWemu6UdxdDFFX/+gVeYqKAod3D3UVm91jHwynguOwAvYPhx8nNIM++NqRcK6CxxpUafjml",
},
"node_modules/balanced-match": {
  "version": "1.0.2",
  "resolved": "https://registry.npmjs.org/balanced-match/-/balanced-match-1.0.2.tgz",
  "integrity": "sha512-3oSeUO0TMV67hN1AmbXsK4yaqU7tjiHlIbXRdZOPH0KW9+CeX4bRAaX0Anxt0tx2MrpRpWwQaPwIISE",
  "dev": true
},
"node_modules/binary-extensions": {
  "version": "2.3.0",
  "resolved": "https://registry.npmjs.org/binary-extensions/-/binary-extensions-2.3.0.tgz",
  "integrity": "sha512-JuLz81pG9bE9e8oYw/qWvUJwcbeR8d83lQpG183P2Q+c9z/085lCNv837j0eKGLdCkn5sKSuuWi/IY=",
  "dev": true,
  "engines": {
    "node": ">=8"
  },
  "funding": {
    "url": "https://github.com/sponsors/sindresorhus"
  }
}

```

```
},
"node_modules/body-parser": {
  "version": "1.20.3",
  "resolved": "https://registry.npmjs.org/body-parser/-/body-parser-1.20.3.tgz",
  "integrity": "sha512-W7YZ56B55B7ZpIDowbTID5xgA5FZ0W1593Fndj8L8j83a3378Dy7o5GdF7pX3U8KqWfH1F0qH0y1aE0qUw==",
  "dependencies": {
    "bytes": "3.1.2",
    "content-type": "~1.0.5",
    "debug": "2.6.9",
    "depd": "2.0.0",
    "destroy": "1.2.0",
    "http-errors": "2.0.0",
    "iconv-lite": "0.4.24",
    "on-finished": "2.4.1",
    "qs": "6.13.0",
    "raw-body": "2.5.2",
    "type-is": "~1.6.18",
    "unpipe": "1.0.0"
  },
  "engines": {
    "node": ">= 0.8",
    "npm": "1.2.8000 || >= 1.4.16"
  }
},
"node_modules/brace-expansion": {
  "version": "1.1.11",
  "resolved": "https://registry.npmjs.org/brace-expansion/-/brace-expansion-1.1.11.tgz",
  "integrity": "sha512-iCuPHDFgrHX7H2vEI/5xpz07zSHB00TpugqhmYtVmMO6518mCuRMoOYFldEBl0g187ufozdaHgWKcYFjdiFnaCs6X6V7V7aBpOatEH2E4o8pO9YrA/qYXcvsO1w==",
  "dev": true,
  "dependencies": {
    "balanced-match": "^1.0.0",
    "concat-map": "0.0.1"
  }
},
"node_modules/braces": {
  "version": "3.0.3",
  "resolved": "https://registry.npmjs.org/braces/-/braces-3.0.3.tgz",
  "integrity": "sha512-y8b74jajcGcU5ZgdIhQ7ujcX4TJQHPQRTx+0u2EtNICpzbI8QXgpozF0FF5PDSbwy8jBzQvjkZ6Oxg7Ot58d8A==",
  "dev": true,
  "dependencies": {
    "fill-range": "^7.1.1"
  },
  "engines": {
    "node": ">=8"
  }
},
"node_modules/bytes": {
  "version": "3.1.2",
  "resolved": "https://registry.npmjs.org/bytes/-/bytes-3.1.2.tgz",
  "integrity": "sha512-/vZ+yb5gRlq97oR5H0OvE12TqE9vUuYweIcFOh4KvQ56Xw4bkNp8hEr479RhwP4gEN5+Q544Tw7b5/Pw0Q==",
  "engines": {
    "node": ">= 0.8"
  }
}
```

```

},
"node_modules/call-bind-apply-helpers": {
  "version": "1.0.2",
  "resolved": "https://registry.npmjs.org/call-bind-apply-helpers/-/call-bind-apply-helpers-1.0.2.tgz",
  "integrity": "sha512-Sp1abIJOivDkSzjcaJdxEunN5/XvksFJ2sMBFfq6x0ryhQV/2b/KwFe21cMpmHtPOSij8K99/wSfoEuTObmU",
  "dependencies": {
    "es-errors": "^1.3.0",
    "function-bind": "^1.1.2"
  },
  "engines": {
    "node": ">= 0.4"
  }
},
"node_modules/call-bound": {
  "version": "1.0.4",
  "resolved": "https://registry.npmjs.org/call-bound/-/call-bound-1.0.4.tgz",
  "integrity": "sha512-+ys997U96po4Kx/ABpBCqhA9EuxJaQWDQg7295H4hBphv3lZg0boBKuwYpt4YXp6MZ5AmZQnU/tyMT",
  "dependencies": {
    "call-bind-apply-helpers": "^1.0.2",
    "get-intrinsic": "^1.3.0"
  },
  "engines": {
    "node": ">= 0.4"
  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
"node_modules/chokidar": {
  "version": "3.6.0",
  "resolved": "https://registry.npmjs.org/chokidar/-/chokidar-3.6.0.tgz",
  "integrity": "sha512-7VT13fmjotKpGipCW9JEQAusEPE+Ei8nl6/g4FBAmIm0GOOLMua9NDDo/DWp0ZAxCr3cPq5ZpBqmPA",
  "dev": true,
  "dependencies": {
    "anymatch": "~3.1.2",
    "braces": "~3.0.2",
    "glob-parent": "~5.1.2",
    "is-binary-path": "~2.1.0",
    "is-glob": "~4.0.1",
    "normalize-path": "~3.0.0",
    "readdirp": "~3.6.0"
  },
  "engines": {
    "node": ">= 8.10.0"
  },
  "funding": {
    "url": "https://paulmillr.com/funding/"
  },
  "optionalDependencies": {
    "fsevents": "~2.3.2"
  }
},
"node_modules/concat-map": {

```

```
"version": "0.0.1",
"resolved": "https://registry.npmjs.org/concat-map/-/concat-map-0.0.1.tgz",
"integrity": "sha512-Srv4dswyQNBfohGpz9o6Yb3Gz3SrUDqBH5rTuhGR7ahtlbYKnVxw2bCFMRljaA7EXHaXZ8wsHdodFvb",
"dev": true
},
"node_modules/content-disposition": {
  "version": "0.5.4",
  "resolved": "https://registry.npmjs.org/content-disposition/-/content-disposition-0.5.4.tgz",
  "integrity": "sha512-FveYTQi7ul88C0iAeyDhKf4ZPbTD4UBzSGpt6/sJ7bMG91kp2RnTX8nkvJR4K2p92oD0Yh32jP/5XG8lWJ3Dw==",
  "dependencies": {
    "safe-buffer": "5.2.1"
  },
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/content-type": {
  "version": "1.0.5",
  "resolved": "https://registry.npmjs.org/content-type/-/content-type-1.0.5.tgz",
  "integrity": "sha512-LTouIbcF23qNUyAiQeDroUdIARv55qAZNbrQd/C2v13c8Gbn4DhVwf6x5ZtZnDnO50tk8XTwN9AMk1N9v0fzdw==",
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/cookie": {
  "version": "0.7.1",
  "resolved": "https://registry.npmjs.org/cookie/-/cookie-0.7.1.tgz",
  "integrity": "sha512-6DnInpx7Sj2AK3+CTUE/ZM0vWTUboZCegxhC2xilydHR9jNuTAASBrfEpHhiGOZw/nX51bHt6YQI8jsGo",
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/cookie-signature": {
  "version": "1.0.6",
  "resolved": "https://registry.npmjs.org/cookie-signature/-/cookie-signature-1.0.6.tgz",
  "integrity": "sha512-QvD2QX455cdJ54/8o3D8I4ndXt13IlqX98U8lQ9A8xVtAr8Em0TzL8s3lL0cU08K1d0HbJlUdL3tP7DnQ==",
  },
"node_modules/cors": {
  "version": "2.8.5",
  "resolved": "https://registry.npmjs.org/cors/-/cors-2.8.5.tgz",
  "integrity": "sha512-KZfwyKZjYTkcJ0S0956w1rOxDeEDRO7N/OWmohF8MF1Df1+n7UFQJQc6zORU0I8OvPnJLlqOXYXCow0dvkBhA==",
  "dependencies": {
    "object-assign": "^4",
    "vary": "^1"
  },
  "engines": {
    "node": ">= 0.10"
  }
},
"node_modules/debug": {
  "version": "2.6.9",
  "resolved": "https://registry.npmjs.org/debug/-/debug-2.6.9.tgz",
  "integrity": "sha512-bC7ElrdJaJnPbAP+1EotYvqZsb3ecl5wi6Bfi6BJTUcNowp6cvspg0jXznRTKDjm/E7AdgFBVeAPVMNcKG
```

```
"dependencies": {
  "ms": "2.0.0"
},
"node_modules/depd": {
  "version": "2.0.0",
  "resolved": "https://registry.npmjs.org/depd/-/depd-2.0.0.tgz",
  "integrity": "sha512-g7nH6P6dyDioJogAAGprGpCtVImJhpPk/roCzdb3fIlh61/s/nPsfR6onyMwkCAR/OlC3yBC0IESvUoQEAssl",
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/destroy": {
  "version": "1.2.0",
  "resolved": "https://registry.npmjs.org/destroy/-/destroy-1.2.0.tgz",
  "integrity": "sha512-2sB4MxnJ9w4U2P8+ss5xqS7wtS5WV8pW3y5sW/y23LIjU8QlF8024xM4kO492UW/Oe8+Oo/GfHVsV3a7A==",
  "engines": {
    "node": ">= 0.8",
    "npm": "1.2.8000 || >= 1.4.16"
  }
},
"node_modules/dunder-proto": {
  "version": "1.0.1",
  "resolved": "https://registry.npmjs.org/dunder-proto/-/dunder-proto-1.0.1.tgz",
  "integrity": "sha512-KinS8WVDFa38xWtWwVh6k5jl7E8M1nOjO3EI/4U1Gz3u+h1cT52jI3CmVswt2D7I9vHhGyQbV7eXWAZ4hA==",
  "dependencies": {
    "call-bind-apply-helpers": "^1.0.1",
    "es-errors": "^1.3.0",
    "gopd": "^1.2.0"
  },
  "engines": {
    "node": ">= 0.4"
  }
},
"node_modules/ee-first": {
  "version": "1.1.1",
  "resolved": "https://registry.npmjs.org/ee-first/-/ee-first-1.1.1.tgz",
  "integrity": "sha512-WKwzGwZvz4jkbaeO54Sh2m72SFP6w7LXludh7qPz3uieF1w3/Gv6Ib3Ug0or7YryVJ770g2fEzmS8Ck7nw==",
  "dependencies": {}
},
"node_modules/encodeurl": {
  "version": "2.0.0",
  "resolved": "https://registry.npmjs.org/encodeurl/-/encodeurl-2.0.0.tgz",
  "integrity": "sha512-QCn6AYkYzxlqVKCnrzAM0LJ9OmSRy71XV/qS+FASbe5ge1sSQUj93e1SjyKqPWIOuMCWM6rC9J8byAVoNMqbA==",
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/es-define-property": {
  "version": "1.0.1",
  "resolved": "https://registry.npmjs.org/es-define-property/-/es-define-property-1.0.1.tgz",
  "integrity": "sha512-3a3N0Wc8rLcQq8Xm4Gv7c5N8kY2w5lz4XlT1U7b6l1KhDU1uWZsNadSqHngqdXqW2GNXWbtHnogUlAI9YU==",
  "engines": {
    "node": ">= 0.4"
  }
}
```

```
}
},
"node_modules/es-errors": {
  "version": "1.3.0",
  "resolved": "https://registry.npmjs.org/es-errors/-/es-errors-1.3.0.tgz",
  "integrity": "sha512-Zf5H2Kxt2xjTvbJvP2ZWLEICxA6j+hAmMzllpy4xcBg1vKVnx89Wy0GbS+kf5cwCVFFzdCFh2XSCFNUL",
  "engines": {
    "node": ">= 0.4"
  }
},
"node_modules/es-object-atoms": {
  "version": "1.1.1",
  "resolved": "https://registry.npmjs.org/es-object-atoms/-/es-object-atoms-1.1.1.tgz",
  "integrity": "sha512-FGgH2h8zKNim9ljj7dankFPcIClK9Cp5bm+c2gQSYePhpaG5+esrLODihlorn+Pe6FGJzWhXQotPv73jTala",
  "dependencies": {
    "es-errors": "^1.3.0"
  },
  "engines": {
    "node": ">= 0.4"
  }
},
"node_modules/escape-html": {
  "version": "1.0.3",
  "resolved": "https://registry.npmjs.org/escape-html/-/escape-html-1.0.3.tgz",
  "integrity": "sha512-YzQuwezdnQXlFJf0Y4nG2zFgRHTx/ZKysQZVjM2uLkF7uYxIVrOz17U2KWUgCyXvnEBjvV0L5VBtY6s2tQ=="
},
"node_modules/etag": {
  "version": "1.8.1",
  "resolved": "https://registry.npmjs.org/etag/-/etag-1.8.1.tgz",
  "integrity": "sha512-aEL7g91hUNSMyFK3N4I+l9uYc/0p+QPD47B79IY8/+8UkZL1l9K4FFuzd5JcS0VlP4D2y0UyGv4GJcUgFw==",
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/express": {
  "version": "4.21.2",
  "resolved": "https://registry.npmjs.org/express/-/express-4.21.2.tgz",
  "integrity": "sha512-28H0gRWVtJ9HsjWjSbZrqh80kGtp0A5S6WphwRVAikUNrBN6LWjfVzdjFgRVQW3JgCdI9Lk3HrUUEruK5zw==",
  "dependencies": {
    "accepts": "~1.3.8",
    "array-flatten": "1.1.1",
    "body-parser": "1.20.3",
    "content-disposition": "0.5.4",
    "content-type": "~1.0.4",
    "cookie": "0.7.1",
    "cookie-signature": "1.0.6",
    "debug": "2.6.9",
    "depd": "2.0.0",
    "encodeurl": "~2.0.0",
    "escape-html": "~1.0.3",
    "etag": "~1.8.1",
    "finalhandler": "1.3.1",
    "fresh": "0.5.2",

```

```
"http-errors": "2.0.0",
"merge-descriptors": "1.0.3",
"methods": "~1.1.2",
"on-finished": "2.4.1",
"parseurl": "~1.3.3",
"path-to-regexp": "0.1.12",
"proxy-addr": "~2.0.7",
"qs": "6.13.0",
"range-parser": "~1.2.1",
"safe-buffer": "5.2.1",
"send": "0.19.0",
"serve-static": "1.16.2",
"setprototypeof": "1.2.0",
"statuses": "2.0.1",
"type-is": "~1.6.18",
"utils-merge": "1.0.1",
"vary": "~1.1.2"
},
"engines": {
  "node": ">= 0.10.0"
},
"funding": {
  "type": "opencollective",
  "url": "https://opencollective.com/express"
}
},
"node_modules/fill-range": {
  "version": "7.1.1",
  "resolved": "https://registry.npmjs.org/fill-range/-/fill-range-7.1.1.tgz",
  "integrity": "sha512-ysxKdoy0pAa12wWb9aRb1WH10E7H/8yRAyfa640xU08GvU9FUFarjR+L3zZaJYTCRQZPQY78wR8ZuQ==",
  "dev": true,
  "dependencies": {
    "to-regex-range": "^5.0.1"
  },
  "engines": {
    "node": ">=8"
  }
},
"node_modules/finalhandler": {
  "version": "1.3.1",
  "resolved": "https://registry.npmjs.org/finalhandler/-/finalhandler-1.3.1.tgz",
  "integrity": "sha512-6Tz64h9wU83w5L9bDl7Rn205oWj8+yW12eCpgIF3J5VY1+D5ZdOZEb6Hm0t1nI4UaWQvTQ+T5Iw==",
  "dependencies": {
    "debug": "2.6.9",
    "encodeurl": "~2.0.0",
    "escape-html": "~1.0.3",
    "on-finished": "2.4.1",
    "parseurl": "~1.3.3",
    "statuses": "2.0.1",
    "unpipe": "~1.0.0"
  },
  "engines": {
    "node": ">= 0.8"
  }
}
```



```
}
},
"node_modules/forwarded": {
  "version": "0.2.0",
  "resolved": "https://registry.npmjs.org/forwarded/-/forwarded-0.2.0.tgz",
  "integrity": "sha512-buRG0fpBtRHSTCOASe6hD258tEubFoRLb4ZNA6NxMVHNw2gOcwHo9wyablzMzOA5z9xA9L1KNjk/Nt",
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/fresh": {
  "version": "0.5.2",
  "resolved": "https://registry.npmjs.org/fresh/-/fresh-0.5.2.tgz",
  "integrity": "sha512-ZKj318UHV0Q+6b4w8L3s9n4GlPhQJve5G3W3Eg8YI337VpWV6w3o3KpZdQF16VqYn1L71o8Z4n7z0z7w=",
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/fsevents": {
  "version": "2.3.3",
  "resolved": "https://registry.npmjs.org/fsevents/-/fsevents-2.3.3.tgz",
  "integrity": "sha512-L9w1QZ7oJL1EzR2IzOe6zDroP53LFhVW/9tFy1SYVqFzjNIuVagX354Pv1lWYeZaB4XQf8L14+5ibxw78A=",
  "dev": true,
  "hasInstallScript": true,
  "optional": true,
  "os": [
    "darwin"
  ],
  "engines": {
    "node": "^8.16.0 || ^10.6.0 || >=11.0.0"
  }
},
"node_modules/function-bind": {
  "version": "1.1.2",
  "resolved": "https://registry.npmjs.org/function-bind/-/function-bind-1.1.2.tgz",
  "integrity": "sha512-7P8tPjcUJR5sqfQDrPAP5WM70B49UNY5+jG6AvL1zX9hZkU+P/F1Z0bLjGc47M2Kx3JYpsmIeaa0QrXzLg==",
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
"node_modules/get-intrinsic": {
  "version": "1.3.0",
  "resolved": "https://registry.npmjs.org/get-intrinsic/-/get-intrinsic-1.3.0.tgz",
  "integrity": "sha512-Vz4SvB9XiIcgrX9XoXvS3eLLBdHl8J4XoIQn9qWt/2K4Lr1tY883aCJ83q5uTH90M/58K00Zt58657Ck=",
  "dependencies": {
    "call-bind-apply-helpers": "^1.0.2",
    "es-define-property": "^1.0.1",
    "es-errors": "^1.3.0",
    "es-object-atoms": "^1.1.1",
    "function-bind": "^1.1.2",
    "get-proto": "^1.0.1",
    "gopd": "^1.2.0",
    "has-symbols": "^1.1.0",
  }
}
```

```
"hasown": "^2.0.2",
"math-intrinsics": "^1.1.0"
},
"engines": {
  "node": ">= 0.4"
},
"funding": {
  "url": "https://github.com/sponsors/ljharb"
}
},
"node_modules/get-proto": {
  "version": "1.0.1",
  "resolved": "https://registry.npmjs.org/get-proto/-/get-proto-1.0.1.tgz",
  "integrity": "sha512-sTsfbJp89JvIKlefqw7U2CCebsc74kiY6awiGogKtoSGbgjYE/G/+I9sF3MWFPNc9lcoOC4ODfKHfxFm",
  "dependencies": {
    "dunder-proto": "^1.0.1",
    "es-object-atoms": "^1.0.0"
  },
  "engines": {
    "node": ">= 0.4"
  }
},
"node_modules/glob-parent": {
  "version": "5.1.2",
  "resolved": "https://registry.npmjs.org/glob-parent/-/glob-parent-5.1.2.tgz",
  "integrity": "sha512-AOIgSQCEpiJYwP3ARnGx+5VnTu2HBYdzbGP45eLw1vr3zB3vZLeyed1sC9hnbcOc9/SrMyM5RPQrkGz",
  "dev": true,
  "dependencies": {
    "is-glob": "^4.0.1"
  },
  "engines": {
    "node": ">= 6"
  }
},
"node_modules/gopd": {
  "version": "1.2.0",
  "resolved": "https://registry.npmjs.org/gopd/-/gopd-1.2.0.tgz",
  "integrity": "sha512-ZUKRh6/kUFoAiTAiTYPZJ3hw9wNxx+BIBOijnIG9PnrJsCcSjs1wyyD6vJpaYtgnzDrKYRSqf3OO6Rfa93x",
  "engines": {
    "node": ">= 0.4"
  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
"node_modules/has-flag": {
  "version": "3.0.0",
  "resolved": "https://registry.npmjs.org/has-flag/-/has-flag-3.0.0.tgz",
  "integrity": "sha512-3s2x14y1FBIgA0iN181CqM46iLLu3k+RgXtJi6V01ddHr43W3J84tAAp8lhX7Ic40w3S5Z4F7+Hw",
  "dev": true,
  "engines": {
    "node": ">=4"
  }
}
```

```
},
"node_modules/has-symbols": {
  "version": "1.1.0",
  "resolved": "https://registry.npmjs.org/has-symbols/-/has-symbols-1.1.0.tgz",
  "integrity": "sha512-1cDNdwJ2Jaohmb3sg4OmKaMBwuC48sYni5HUw2DvsC8LjGTLK9h+eb1X6RyuOHe4hT0ULCW68iomh",
  "engines": {
    "node": ">= 0.4"
  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
"node_modules/hasown": {
  "version": "2.0.2",
  "resolved": "https://registry.npmjs.org/hasown/-/hasown-2.0.2.tgz",
  "integrity": "sha512-0hJU9SCPvmMzIBdZFqNPXWa6dqh7WdH0cII9y+CyS8rG3nL48Bclra9HmKhVVUHyPWNH5Y7xDwAB7",
  "dependencies": {
    "function-bind": "^1.1.2"
  },
  "engines": {
    "node": ">= 0.4"
  }
},
"node_modules/http-errors": {
  "version": "2.0.0",
  "resolved": "https://registry.npmjs.org/http-errors/-/http-errors-2.0.0.tgz",
  "integrity": "sha512-FtwrG/euBzaEjYeRqOgly7G0qviiXoJWnvEH2Z1pIBdXgbyjv34pHTSb9zoeHMyDy33+DWy5Wt9Wo+TUR",
  "dependencies": {
    "depd": "2.0.0",
    "inherits": "2.0.4",
    "setprototypeof": "1.2.0",
    "statuses": "2.0.1",
    "toidentifier": "1.0.1"
  },
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/iconv-lite": {
  "version": "0.4.24",
  "resolved": "https://registry.npmjs.org/iconv-lite/-/iconv-lite-0.4.24.tgz",
  "integrity": "sha512-v3MXnZACvnywkTUEZomlActle7RXXeedOR31wwI7VlYoXO4Qi9arvSenNQWne1TcRwhCL1HwLI21bEq",
  "dependencies": {
    "safer-buffer": ">= 2.1.2 < 3"
  },
  "engines": {
    "node": ">=0.10.0"
  }
},
"node_modules/ignore-by-default": {
  "version": "1.0.1",
  "resolved": "https://registry.npmjs.org/ignore-by-default/-/ignore-by-default-1.0.1.tgz",
  "integrity": "sha512-IusvgTfYj985vUwM1Ke3uJ1PlfyUB8CXWbv5pm8Xc16PG4tK4c4PncgJ95lV8473UKghqt8LhP7aF18z48P"
```

```
"dev": true
},
"node_modules/inherits": {
  "version": "2.0.4",
  "resolved": "https://registry.npmjs.org/inherits/-/inherits-2.0.4.tgz",
  "integrity": "sha512-k/vGaX4/Yla3WzyMCvTQOXYeIhVqOKtnqBduzTHpzpQZzAskKMhZ2K+EnBiSM9zGSoIFeMpXKxa4dYe",
},
"node_modules/ipaddr.js": {
  "version": "1.9.1",
  "resolved": "https://registry.npmjs.org/ipaddr.js/-/ipaddr.js-1.9.1.tgz",
  "integrity": "sha512-0KI/607xoxSToH7GjN1FfSbLoU0+btTicjsQSWQlH/hZykN8KpmMf7uYwPW3R+akZ6R/w18ZIXSHBYXiYU",
  "engines": {
    "node": ">= 0.10"
  }
},
"node_modules/is-binary-path": {
  "version": "2.1.0",
  "resolved": "https://registry.npmjs.org/is-binary-path/-/is-binary-path-2.1.0.tgz",
  "integrity": "sha512-ZMERYes6pDydyuGidse7OsHxtbI7WVveUEozgR/g7rd0xUimYNlvZRE/K2MgZTjWy725IfelLeVcEM97mm",
  "dev": true,
  "dependencies": {
    "binary-extensions": "^2.0.0"
  },
  "engines": {
    "node": ">=8"
  }
},
"node_modules/is-extglob": {
  "version": "2.1.1",
  "resolved": "https://registry.npmjs.org/is-extglob/-/is-extglob-2.1.1.tgz",
  "integrity": "sha512-SbKbANKN603Vi4jEZv49LeVJMn4yGwsbzZworEoyEiutsN3nJYdbO36zfHqGJ6QEDpOZIFkDtnq5JRxmvl3",
  "dev": true,
  "engines": {
    "node": ">=0.10.0"
  }
},
"node_modules/is-glob": {
  "version": "4.0.3",
  "resolved": "https://registry.npmjs.org/is-glob/-/is-glob-4.0.3.tgz",
  "integrity": "sha512-xelSayHH36ZgE7ZWHLi7pW34hNbNI8Ojv5KVmkJD4hBdD3th8Tfk9vYasLM+mXWOZhFkgZfxhLSnrwRr4",
  "dev": true,
  "dependencies": {
    "is-extglob": "^2.1.1"
  },
  "engines": {
    "node": ">=0.10.0"
  }
},
"node_modules/is-number": {
  "version": "7.0.0",
  "resolved": "https://registry.npmjs.org/is-number/-/is-number-7.0.0.tgz",
  "integrity": "sha512-41Cifkg6e8TylSpdtTpeLVMqvSBEVzTttHvERD741+pnZ8ANv0004MRL43QKPDIK9cGvNp6NZWZUBibG",
  "dev": true,
```

```
"engines": {
  "node": ">=0.12.0"
},
"node_modules/math-intrinsics": {
  "version": "1.1.0",
  "resolved": "https://registry.npmjs.org/math-intrinsics/-/math-intrinsics-1.1.0.tgz",
  "integrity": "sha512-IXtbwEk5HTPyEwyKX6hGkYXxM9nbj64B+ilVJnC/R6B0pH5G4V3b0pVbL7DBj4tkhBAppbQUlf6F6XI9LH",
  "engines": {
    "node": ">= 0.4"
  }
},
"node_modules/media-typer": {
  "version": "0.3.0",
  "resolved": "https://registry.npmjs.org/media-typer/-/media-typer-0.3.0.tgz",
  "integrity": "sha512-dq+qelQ9akHpcOI/gUVRTxVIOkAJ1wR3QAvb4RsVjS8oVoFjDGTc679wJYmUmknUF5HwMLOgb5O+a3",
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/merge-descriptors": {
  "version": "1.0.3",
  "resolved": "https://registry.npmjs.org/merge-descriptors/-/merge-descriptors-1.0.3.tgz",
  "integrity": "sha512-gaNvAS7TZ897/rVaZ0nMtAyxNyi/pdbjbAwUpFQpN70GqnVfOiXpeUUMKRBmzXaSQ8DdTX4/0ms62rK",
  "funding": {
    "url": "https://github.com/sponsors/sindresorhus"
  }
},
"node_modules/methods": {
  "version": "1.1.2",
  "resolved": "https://registry.npmjs.org/methods/-/methods-1.1.2.tgz",
  "integrity": "sha512-iclAHeNqNm68zFtnZ0e+1L2yUladvNoauKU4WBA3VvH/vPFieF7qfRlwUZU+DA9P9bPXIS90ulxoUoCH2",
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/mime": {
  "version": "1.6.0",
  "resolved": "https://registry.npmjs.org/mime/-/mime-1.6.0.tgz",
  "integrity": "sha512-x0Vn8spl+wuJ1O6S7gnbaQg8Pxx4NNHb7KSINmEWKiPE4RKOPlvijn+NkmYmmRgP68mc70j2EbeTFR",
  "bin": {
    "mime": "cli.js"
  },
  "engines": {
    "node": ">=4"
  }
},
"node_modules/mime-db": {
  "version": "1.52.0",
  "resolved": "https://registry.npmjs.org/mime-db/-/mime-db-1.52.0.tgz",
  "integrity": "sha512-sPU4uV7dYlvtWJxwwwHD0PuihVNiE7TyAbQ5SWxDCB9mUYvOgroQOwYQQOKPJ8CibE+1ETVIOoK1",
  "engines": {
    "node": ">= 0.6"
  }
}
```

```
}
},
"node_modules/mime-types": {
  "version": "2.1.35",
  "resolved": "https://registry.npmjs.org/mime-types/-/mime-types-2.1.35.tgz",
  "integrity": "sha512-ZDY+bPm5zTTF+YpCrAU9nK0UgICYPT0QtT1NZWFv4s++TNkcgVaT0g6+4R2ul4MjQjzysHB1zXuWLS5",
  "dependencies": {
    "mime-db": "1.52.0"
  },
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/minimatch": {
  "version": "3.1.2",
  "resolved": "https://registry.npmjs.org/minimatch/-/minimatch-3.1.2.tgz",
  "integrity": "sha512-J7p63hRiAiw1NDEww1W7i37+BylrOWO5XQQAazZ3VOcL0PNybwpmV/N05zFAzwQ9USyEcX6t3UO+K",
  "dev": true,
  "dependencies": {
    "brace-expansion": "^1.1.7"
  },
  "engines": {
    "node": "*"
  }
},
"node_modules/ms": {
  "version": "2.0.0",
  "resolved": "https://registry.npmjs.org/ms/-/ms-2.0.0.tgz",
  "integrity": "sha512-Tpp60P6IUJDTuOq/5Z8cdskzJujfwqfOTkrwIwj7IRISpnkJnT6SyJ4PCPnGMoFjC9ddhal5KVIYtAt97ix05A",
},
"node_modules/negotiator": {
  "version": "0.6.3",
  "resolved": "https://registry.npmjs.org/negotiator/-/negotiator-0.6.3.tgz",
  "integrity": "sha512-+EUsqGPLsM+j/zdChZjsnX51g4XrHFOIXwfnCVPGLQk/k5giakcKsuxCObBRu6DSm9opw/O6slWbJdghQ",
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/nodemon": {
  "version": "3.1.9",
  "resolved": "https://registry.npmjs.org/nodemon/-/nodemon-3.1.9.tgz",
  "integrity": "sha512-hdr1oIb2p6ZSxu3PB2JWWYS7ZQ0qvaZsc3hK8DR8f02kRzc8rjYmxAlvdz+aYC+8F2IjNaB7HMcSDg8nG",
  "dev": true,
  "dependencies": {
    "chokidar": "^3.5.2",
    "debug": "^4",
    "ignore-by-default": "^1.0.1",
    "minimatch": "^3.1.2",
    "pstree.remy": "^1.1.8",
    "semver": "^7.5.3",
    "simple-update-notifier": "^2.0.0",
    "supports-color": "^5.5.0",
    "touch": "^3.1.0",
  }
}
```

```
"undefsafe": "^2.0.5"
},
"bin": {
  "nodemon": "bin/nodemon.js"
},
"engines": {
  "node": ">=10"
},
"funding": {
  "type": "opencollective",
  "url": "https://opencollective.com/nodemon"
}
},
"node_modules/nodemon/node_modules/debug": {
  "version": "4.4.0",
  "resolved": "https://registry.npmjs.org/debug/-/debug-4.4.0.tgz",
  "integrity": "sha512-6WTZ/LxCY/T6BALoZHaE4ctp9xm+Z5kY/pzYaCHRFeyVhojxlrn+46y68HA6hr0TcwEssoxNiDEUJQjfPZ/
  "dev": true,
  "dependencies": {
    "ms": "^2.1.3"
  },
  "engines": {
    "node": ">=6.0"
  },
  "peerDependenciesMeta": {
    "supports-color": {
      "optional": true
    }
  }
},
"node_modules/nodemon/node_modules/ms": {
  "version": "2.1.3",
  "resolved": "https://registry.npmjs.org/ms/-/ms-2.1.3.tgz",
  "integrity": "sha512-6FlzubTLZG3J2a/NVCAleEhjq5oxgHyaCU9yYXvcLsvoVaHJq/s5xXI6/XXP6tz7R9xAOtHnSO/tXtF3WR7
  "dev": true
},
"node_modules/normalize-path": {
  "version": "3.0.0",
  "resolved": "https://registry.npmjs.org/normalize-path/-/normalize-path-3.0.0.tgz",
  "integrity": "sha512-6eZs5Ls3WtCisHWp9S2GUy8dqkGi4BVSz3GaqiE6ezub0512ESztXUwUB6C6IKbQkY2Pnb/mD4WYoj
  "dev": true,
  "engines": {
    "node": ">=0.10.0"
  }
},
"node_modules/object-assign": {
  "version": "4.1.1",
  "resolved": "https://registry.npmjs.org/object-assign/-/object-assign-4.1.1.tgz",
  "integrity": "sha512-rJnuKk22e4F7Mh7cW2eSuQmWswI+MhUb3Y6VVaI+k1stZvWVrL8uUKQoIe9hWFFmF9nWtf0/6jK0gYU
  "engines": {
    "node": ">=0.10.0"
  }
},
```

```
"node_modules/object-inspect": {
  "version": "1.13.4",
  "resolved": "https://registry.npmjs.org/object-inspect/-/object-inspect-1.13.4.tgz",
  "integrity": "sha512-W67lI4J2EXEGTbfeHCfrrjDfitvLANg0UIX3wFUUSTx92KXRFegMHUVgSqE+wwhAbi4WqjGg9czysTV2E",
  "engines": {
    "node": ">= 0.4"
  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
"node_modules/on-finished": {
  "version": "2.4.1",
  "resolved": "https://registry.npmjs.org/on-finished/-/on-finished-2.4.1.tgz",
  "integrity": "sha512-OVSSJ7t+8LPlBdJrD6Hh8PtE8a0VMpQYFQa5mP/NSI5D5Ft+9YxI7tO0HljWCdFm3E8TKeVBNp7tXR8A",
  "dependencies": {
    "ee-first": "1.1.1"
  },
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/parseurl": {
  "version": "1.3.3",
  "resolved": "https://registry.npmjs.org/parseurl/-/parseurl-1.3.3.tgz",
  "integrity": "sha512-CiyeOxFT/JZyN5m0z9Pfw4SCBJ6Sygz1Dpl0wqjlhDEGGBP1GnsUVEL0p63hoG1fcj3fHynXi9NYO4nW",
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/path-to-regexp": {
  "version": "0.1.12",
  "resolved": "https://registry.npmjs.org/path-to-regexp/-/path-to-regexp-0.1.12.tgz",
  "integrity": "sha512-RA1GjUVMNvYFfuqovrEqZoxXW5NUZqbWkTyz/Tt7nXerk0LbLbIQmrsgdeOxV5SFHf0UDggjS/bSeOZwt",
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/picomatch": {
  "version": "2.3.1",
  "resolved": "https://registry.npmjs.org/picomatch/-/picomatch-2.3.1.tgz",
  "integrity": "sha512-JU3teHTNjmE2VCGFzuY8EXzCDVwEqB2a8fslvwaStHhAWJEeVd1o1QD80CU6+ZdEXXSLbSsuLwJjkC",
  "dev": true,
  "engines": {
    "node": ">=8.6"
  },
  "funding": {
    "url": "https://github.com/sponsors/jonschlinkert"
  }
},
"node_modules/proxy-addr": {
  "version": "2.0.7",
  "resolved": "https://registry.npmjs.org/proxy-addr/-/proxy-addr-2.0.7.tgz",
  "integrity": "sha512-89jOxU7+uzaive+F0qmnzHuW4JzueybcUwtaBeAKMuH6tM8o91By/LKg4Tj7nubYxNecWuSsmKY49eIF8tA",
  "dependencies": {
    "forwarded": "0.2.0",
    "ipaddr.js": "1.9.1"
  },
  "engines": {
    "node": ">= 0.6"
  }
}
```



```
"ipaddr.js": "1.9.1"
},
"engines": {
  "node": ">= 0.10"
}
},
"node_modules/pstree.remy": {
  "version": "1.1.8",
  "resolved": "https://registry.npmjs.org/pstree.remy/-/pstree.remy-1.1.8.tgz",
  "integrity": "sha512-77DZwxQmxKnu3aR542U+X8FypNzbfJ+C5XQDk3uWjWxn6151aIMGthWYRXTqT1E5oJvg+Ijaa2OJi+V",
  "dev": true
},
"node_modules/qs": {
  "version": "6.13.0",
  "resolved": "https://registry.npmjs.org/qs/-/qs-6.13.0.tgz",
  "integrity": "sha512-+38ql9SO8tfZ4QmJNpIMUxqjbe7LKvvZgWdExBOmd+egZTtjLB67Gu0HRX3u/XOq7UU2Nx6nsjvS16Z9",
  "dependencies": {
    "side-channel": "^1.0.6"
  },
  "engines": {
    "node": ">=0.6"
  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
"node_modules/range-parser": {
  "version": "1.2.1",
  "resolved": "https://registry.npmjs.org/range-parser/-/range-parser-1.2.1.tgz",
  "integrity": "sha512-8rg3z3MqyZ1H3Ji70bB02wKMeV80w0tXJy85ZS49ahGbbHXNDV6h2Q8z8Wn/s2oRF2eY1b4ZQYUgOQ==",
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/raw-body": {
  "version": "2.5.2",
  "resolved": "https://registry.npmjs.org/raw-body/-/raw-body-2.5.2.tgz",
  "integrity": "sha512-8gGZj9JLvFH0D8xvAd1kCYDkzHk1sU7ZTM5Ez5H/1oJnwo15YK/DSbLWJzTHW6KqKte7O6F8hJpCKw==",
  "dependencies": {
    "bytes": "3.1.2",
    "http-errors": "2.0.0",
    "iconv-lite": "0.4.24",
    "unpipe": "1.0.0"
  },
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/readdirp": {
  "version": "3.6.0",
  "resolved": "https://registry.npmjs.org/readdirp/-/readdirp-3.6.0.tgz",
  "integrity": "sha512-0K3eBh6oVlJ5j1x1R0U3ZbYlZuVlDQi9XoIeNw+8BpnatwPcMfGf1U4Z7X9AoRb8sD+hJq4JicKXg==",
  "dev": true,
```

```
"dependencies": {
  "picomatch": "^2.2.1"
},
"engines": {
  "node": ">=8.10.0"
}
},
"node_modules/safe-buffer": {
  "version": "5.2.1",
  "resolved": "https://registry.npmjs.org/safe-buffer/-/safe-buffer-5.2.1.tgz",
  "integrity": "sha512-rp3So07KcdmmKbGvgaNxQSiJr7bGVSVk5S9Eq1F+ppbRo70+YeaDxkw5Dd8NPN+GD6bjnYm2VuPuC>
  "funding": [
    {
      "type": "github",
      "url": "https://github.com/sponsors/feross"
    },
    {
      "type": "patreon",
      "url": "https://www.patreon.com/feross"
    },
    {
      "type": "consulting",
      "url": "https://feross.org/support"
    }
  ]
},
"node_modules/safer-buffer": {
  "version": "2.1.2",
  "resolved": "https://registry.npmjs.org/safer-buffer/-/safer-buffer-2.1.2.tgz",
  "integrity": "sha512-YZo3K82SD7Riyi0E1EQPojLz7kpepnSQI9IyPbHHg1XXXevb5dJI7tpyN2ADxGcQbHG7vcyRHk0cbwqcC>
},
"node_modules/semver": {
  "version": "7.7.1",
  "resolved": "https://registry.npmjs.org/semver/-/semver-7.7.1.tgz",
  "integrity": "sha512-hlq8tAfn0m/61p4BVRcPzIGr6LKiMwo4VM6dGi6pt4qcRkmNzTcWq6eCEjEh+qXjkMDvPIOFFSGwQjoEa>
  "dev": true,
  "bin": {
    "semver": "bin/semver.js"
  },
  "engines": {
    "node": ">=10"
  }
},
"node_modules/send": {
  "version": "0.19.0",
  "resolved": "https://registry.npmjs.org/send/-/send-0.19.0.tgz",
  "integrity": "sha512-dW41u5VfLXu8SJh5bwRmyYUbaAoSB3c9uQh6L8h/KtsFREPWpbX1IrljJo186Jc4nmci/sGUZ9a0a0J2zgfo>
  "dependencies": {
    "debug": "2.6.9",
    "depd": "2.0.0",
    "destroy": "1.2.0",
    "encodeurl": "~1.0.2",
    "escape-html": "~1.0.3",

```

```
"etag": "~1.8.1",
"fresh": "0.5.2",
"http-errors": "2.0.0",
"mime": "1.6.0",
"ms": "2.1.3",
"on-finished": "2.4.1",
"range-parser": "~1.2.1",
"statuses": "2.0.1"
},
"engines": {
  "node": ">= 0.8.0"
}
},
"node_modules/send/node_modules/encodeurl": {
  "version": "1.0.2",
  "resolved": "https://registry.npmjs.org/encodeurl/-/encodeurl-1.0.2.tgz",
  "integrity": "sha512-TPJXq8JqFaVYm2CWmPvnP2Iyo4ZSM7/QKcSmuMLDObfpH5fi7RUGmd/rTDf+rut/saiDiQEeVTNgAmJF
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/send/node_modules/ms": {
  "version": "2.1.3",
  "resolved": "https://registry.npmjs.org/ms/-/ms-2.1.3.tgz",
  "integrity": "sha512-6FlzubTLZG3J2a/NVCAleEhjqzq5oxgHyaCU9yYXvcLsvoVaHJq/s5xXI6/XXP6tz7R9xAOtHnSO/tXtF3WR
},
"node_modules/serve-static": {
  "version": "1.16.2",
  "resolved": "https://registry.npmjs.org/serve-static/-/serve-static-1.16.2.tgz",
  "integrity": "sha512-VqpjZKadQB/PEbEwwFdO43Ax5dFBZ2UECsz8bQ7pi7wt//PWe1P6MN7eCnjsatYtBT6EuiClbjSWP2W
  "dependencies": {
    "encodeurl": "~2.0.0",
    "escape-html": "~1.0.3",
    "parseurl": "~1.3.3",
    "send": "0.19.0"
  },
  "engines": {
    "node": ">= 0.8.0"
  }
},
"node_modules/setprototypeof": {
  "version": "1.2.0",
  "resolved": "https://registry.npmjs.org/setprototypeof/-/setprototypeof-1.2.0.tgz",
  "integrity": "sha512-E5LDX7Wrp85Kil5bhZv46j8jOeboKq5JMmYM3gVGdGH8xFpPWXUMsNrIODCrkoxMEeNi/XZlWuRvY4X
},
"node_modules/side-channel": {
  "version": "1.1.0",
  "resolved": "https://registry.npmjs.org/side-channel/-/side-channel-1.1.0.tgz",
  "integrity": "sha512-ZX99e6tRweoUXqR+VBrsIhda51Nh5MTQwou5tnUDgbtyM0dBgmhEDtWGP/xbKn6hqfPRHujUNwz5fy/w
  "dependencies": {
    "es-errors": "^1.3.0",
    "object-inspect": "^1.13.3",
    "side-channel-list": "^1.0.0",

```

```
"side-channel-map": "^1.0.1",
"side-channel-weakmap": "^1.0.2"
},
"engines": {
  "node": ">= 0.4"
},
"funding": {
  "url": "https://github.com/sponsors/ljharb"
}
},
"node_modules/side-channel-list": {
  "version": "1.0.0",
  "resolved": "https://registry.npmjs.org/side-channel-list/-/side-channel-list-1.0.0.tgz",
  "integrity": "sha512-FCLHtRD/gnpCiCHEiJLOWdmFP+wzCmDEkc9y7NsYxeF4u7Btsn1ZuwgwJGxImImHicJArlP4R0yX4c2K",
  "dependencies": {
    "es-errors": "^1.3.0",
    "object-inspect": "^1.13.3"
  },
  "engines": {
    "node": ">= 0.4"
  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
"node_modules/side-channel-map": {
  "version": "1.0.1",
  "resolved": "https://registry.npmjs.org/side-channel-map/-/side-channel-map-1.0.1.tgz",
  "integrity": "sha512-VCjCNfgMsby3tTdo02nbjtM/ewra6jPHmpThenkTYh8pG9ucZ/1P8So4u4FGBek/BjpOVsDCMoLA/iuBKIF",
  "dependencies": {
    "call-bound": "^1.0.2",
    "es-errors": "^1.3.0",
    "get-intrinsic": "^1.2.5",
    "object-inspect": "^1.13.3"
  },
  "engines": {
    "node": ">= 0.4"
  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
"node_modules/side-channel-weakmap": {
  "version": "1.0.2",
  "resolved": "https://registry.npmjs.org/side-channel-weakmap/-/side-channel-weakmap-1.0.2.tgz",
  "integrity": "sha512-WPS/HvHQTYnHisLo9McqBHOJk2FkHO/tlpvldyrnem4aeQp4hai3gythswg6p01oSoTI58rcpiFAjF2br2Ak2",
  "dependencies": {
    "call-bound": "^1.0.2",
    "es-errors": "^1.3.0",
    "get-intrinsic": "^1.2.5",
    "object-inspect": "^1.13.3",
    "side-channel-map": "^1.0.1"
  },
}
```

```
"engines": {
  "node": ">= 0.4"
},
"funding": {
  "url": "https://github.com/sponsors/ljharb"
}
},
"node_modules/simple-update-notifier": {
  "version": "2.0.0",
  "resolved": "https://registry.npmjs.org/simple-update-notifier/-/simple-update-notifier-2.0.0.tgz",
  "integrity": "sha512-a2B9Y0KINXl9u/vsW6sTlu9vGEpfKu2wRV6l1H3XEas/0gUIzGzBoP/louTcUQbm9JWZLH3COxyn03TYIF",
  "dev": true,
  "dependencies": {
    "semver": "^7.5.3"
  },
  "engines": {
    "node": ">=10"
  }
},
"node_modules/statuses": {
  "version": "2.0.1",
  "resolved": "https://registry.npmjs.org/statuses/-/statuses-2.0.1.tgz",
  "integrity": "sha512-RwNA9Z/7PrK06rYLLzFMlaF+I73iwpzsqRIFgbMLbTcLD6cOao82TaWefPXQvB2fOC4AjuYSEndS7N/mT",
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/supports-color": {
  "version": "5.5.0",
  "resolved": "https://registry.npmjs.org/supports-color/-/supports-color-5.5.0.tgz",
  "integrity": "sha512-QjVjwdXlt408MliAqCX4oUKsgU2EqAGzs2Ppkm4aQYbjm+ZEWEcW4SfFNTTr4uMNZma0ey4f5IgLrkB0a",
  "dev": true,
  "dependencies": {
    "has-flag": "^3.0.0"
  },
  "engines": {
    "node": ">=4"
  }
},
"node_modules/to-regex-range": {
  "version": "5.0.1",
  "resolved": "https://registry.npmjs.org/to-regex-range/-/to-regex-range-5.0.1.tgz",
  "integrity": "sha512-65P7iz6X5yEr1cwcgVQxbblw7Uk3gOy5dIdtZ4rDveLqhrdJP+Li/Hx6tyK0NEb+2GCyneCMJiGqrADCSNk8",
  "dev": true,
  "dependencies": {
    "is-number": "^7.0.0"
  },
  "engines": {
    "node": ">=8.0"
  }
},
"node_modules/toidentifier": {
  "version": "1.0.1",
```

```
"resolved": "https://registry.npmjs.org/toidentifier/-/toidentifier-1.0.1.tgz",
"integrity": "sha512-o5sSPKEkg/DIQNmH43V0/uerLrpzVedkUh8tGNvaeXpfpuwjKenlSox/2O/BTIZUtEe+JG7s5YhEz608PIAH
"engines": {
  "node": ">=0.6"
}
},
"node_modules/touch": {
  "version": "3.1.1",
  "resolved": "https://registry.npmjs.org/touch/-/touch-3.1.1.tgz",
  "integrity": "sha512-r7tJDgU4B2P8oV6yHcjRh5kV7S/o8UQlfy/R/sGdNj15y5b8UMr0K7J7Nk1cSO5hV+W8BIeKg6AcXRw9nq
"dev": true,
  "bin": {
    "nodetouch": "bin/nodetouch.js"
  }
},
"node_modules/tr46": {
  "version": "0.0.3",
  "resolved": "https://registry.npmjs.org/tr46/-/tr46-0.0.3.tgz",
  "integrity": "sha512-N3WMsuqV66lT30CrXNbEjx4GEwlow3v6rr4mCcv6prnfwHs01rkgyFdjPNBYd9br7LpXV1+Emh01fHnq2G
},
"node_modules/type-is": {
  "version": "1.6.18",
  "resolved": "https://registry.npmjs.org/type-is/-/type-is-1.6.18.tgz",
  "integrity": "sha512-TkRKr9sUTxEH8MdfuCSP7VizJyzRNMjj2J2do2Jr3Kym598JVdEksuzPQCnIFPW4ky9Q+iA+ma9BGm06
"dependencies": {
  "media-typer": "0.3.0",
  "mime-types": "~2.1.24"
},
"engines": {
  "node": ">= 0.6"
}
},
"node_modules/undefsafe": {
  "version": "2.0.5",
  "resolved": "https://registry.npmjs.org/undefsafe/-/undefsafe-2.0.5.tgz",
  "integrity": "sha512-WxONCrssBM8TSPRqN5EmsjVrsv4A8X12J4ArBiiayv3DyyG3ZlIg6yysuuSYdZsVz3TKcTg2fd//Ujd4CHV
"dev": true
},
"node_modules/undici-types": {
  "version": "6.21.0",
  "resolved": "https://registry.npmjs.org/undici-types/-/undici-types-6.21.0.tgz",
  "integrity": "sha512-iwDZqg0QAGrg9Rav5H4n0M64c3mkR59cJ6wQp+7C4nl0gsmExaedaYLN044eT4AtBBwjbTiGPMIt2Md
},
"node_modules/unpipe": {
  "version": "1.0.0",
  "resolved": "https://registry.npmjs.org/unpipe/-/unpipe-1.0.0.tgz",
  "integrity": "sha512-pjy2bYhSsufwWIKwPc+l3cN7+wuJlK6uz0YdJEOlQDbl6jo/YIPi4mb8agUkVC8BF7V8NuzeyPNqRksA3hz
"engines": {
  "node": ">= 0.8"
}
},
"node_modules/utls-merge": {
  "version": "1.0.1",
```

```
"resolved": "https://registry.npmjs.org/utils-merge/-/utils-merge-1.0.1.tgz",
"integrity": "sha512-pMZTvlkT1d+TFGvDOqodOclx0QWkkgi6Tdoa8gC8ffGAAqz9pzPTZWAYbbsHHoED/ztMtkv/VoYTYyShU
"engines": {
  "node": ">= 0.4.0"
}
},
"node_modules/uuid": {
  "version": "9.0.1",
  "resolved": "https://registry.npmjs.org/uuid/-/uuid-9.0.1.tgz",
  "integrity": "sha512-b+1eJOlsR9K8HJpow9Ok3fiWOWSIclzXodvv0rQjVoOVNpWMpxf1wZNpt4y9h10odCNrqnYp1OBzRktck
  "funding": [
    "https://github.com/sponsors/broofa",
    "https://github.com/sponsors/ctavan"
  ],
  "bin": {
    "uuid": "dist/bin/uuid"
  }
},
"node_modules/vary": {
  "version": "1.1.2",
  "resolved": "https://registry.npmjs.org/vary/-/vary-1.1.2.tgz",
  "integrity": "sha512-BNGbWLfd0eUPabhkXUVm0j8uuvREyTh5ovRa/dyow/BqAbZJyC+5fU+IzQOzmAKzYqYRAISoRhdQr3e
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/webidl-conversions": {
  "version": "3.0.1",
  "resolved": "https://registry.npmjs.org/webidl-conversions/-/webidl-conversions-3.0.1.tgz",
  "integrity": "sha512-2JAn3z8AR6rjK8Sm8orRC0h/bcl/DqL7tRPdGZ4I1CjdF+EaMLmYxBHyXuKL849eucPFhvBoxMsflfOb8kx
},
"node_modules/whatwg-url": {
  "version": "5.0.0",
  "resolved": "https://registry.npmjs.org/whatwg-url/-/whatwg-url-5.0.0.tgz",
  "integrity": "sha512-saE57nupxk6v3HY35+jzBwYa0rKSy0XR8JSxZPwgLr7ys0IBzhGviA1/TUGJLmSVqs8pb9AnvICXEuOHL
  "dependencies": {
    "tr46": "~0.0.3",
    "webidl-conversions": "^3.0.0"
  }
},
"node_modules/ws": {
  "version": "8.18.1",
  "resolved": "https://registry.npmjs.org/ws/-/ws-8.18.1.tgz",
  "integrity": "sha512-RKW2aJZMXeMxVpnZ6bck+RswznaxmzdULiBr6KY7XkTnW8uvt0iT9H5DkHUCbXrc+uurzwa0rVl16n/Xz
  "engines": {
    "node": ">=10.0.0"
  },
  "peerDependencies": {
    "bufferutil": "^4.0.1",
    "utf-8-validate": ">=5.0.2"
  },
  "peerDependenciesMeta": {
    "bufferutil": {

```

```
    "optional": true
  },
  "utf-8-validate": {
    "optional": true
  }
}
}
```


File: cadastros.html

```
=====

<!DOCTYPE html>
<html lang="pt-BR">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Cadastros - Controle de Frequência</title>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">
  <link rel="stylesheet" href="/css/style.css">
</head>
<body>
  <div class="container py-4">
    <h1 class="mb-5 text-center">Cadastros</h1>
    <div class="row g-4">
      <!-- Cadastro de Turma -->
      <div class="col-md-6">
        <div class="card">
          <div class="card-header">Cadastrar Turma</div>
          <div class="card-body">
            <form id="formTurma">
              <div class="mb-3">
                <label for="nomeTurma" class="form-label">Nome da Turma</label>
                <input type="text" class="form-control" id="nomeTurma" required aria-describedby="nomeTurmaHelp">
                <div id="nomeTurmaHelp" class="form-text">Digite o nome da turma (ex.: Turma A).</div>
              </div>
            </form>
          </div>
        </div>
      </div>
      <div class="col-md-6">
        <div class="card">
          <div class="card-header">Cadastrar Aluno</div>
          <div class="card-body">
            <form id="formAluno">
              <div class="mb-3">
                <label for="nomeAluno" class="form-label">Nome do Aluno</label>
                <input type="text" class="form-control" id="nomeAluno" required aria-describedby="nomeAlunoHelp">
                <div id="nomeAlunoHelp" class="form-text">Digite o nome do aluno (ex.: João da Silva).</div>
              </div>
            </form>
          </div>
        </div>
      </div>
    </div>
  </div>
</body>
</html>
```

```
<label for="nomeAluno" class="form-label">Nome do Aluno</label>
<input type="text" class="form-control" id="nomeAluno" required aria-describedby="nomeAlunoHelp">
<div id="nomeAlunoHelp" class="form-text">Digite o nome completo do aluno.</div>
</div>
<div class="mb-3">
  <label for="turmaAluno" class="form-label">Turma</label>
  <select class="form-select" id="turmaAluno" required>
    <option value="" disabled selected>Selecione uma turma</option>
  </select>
</div>
<button type="submit" class="btn btn-primary w-100">Cadastrar Aluno</button>
</form>
<div id="alunoFeedback" class="mt-3"></div>
</div>
</div>
</div>
</div>
<div class="mt-4 text-center">
  <a href="/index.html" class="btn btn-secondary">Voltar ao Menu</a>
</div>
</div>
<!-- Scripts -->
<script src="/js/model.js"></script>
<script src="/js/controller.js"></script>
<script src="/js/view.js"></script>
</body>
</html>
```

File: marcar-presenca.html

```
=====

<!DOCTYPE html>
<html lang="pt-BR">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Marcar Presença - Controle de Frequência</title>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">
  <link rel="stylesheet" href="/css/style.css">
</head>
<body>
  <div class="container py-4">
    <h1 class="mb-5 text-center">Marcar Presença</h1>
    <div class="card">
      <div class="card-header">Marcar Presença</div>
      <div class="card-body">
        <form id="formPresenca">
          <div class="row">
            <div class="col-md-6 mb-3">
              <label for="turmaPresenca" class="form-label">Turma</label>
              <select class="form-select" id="turmaPresenca" required>
                <option value="" disabled selected>Selecione uma turma</option>
              </select>
            </div>
            <div class="col-md-6 mb-3">
              <label for="dataPresenca" class="form-label">Data</label>
              <input type="date" class="form-control" id="dataPresenca" required max="{{hoje}}">
            </div>
          </div>
          <button type="submit" class="btn btn-primary w-100" id="btnCarregarLista">Carregar Lista</button>
        </form>
        <div id="listaPresenca" class="mt-3"></div>
      </div>
    </div>
    <div class="mt-4 text-center">
      <a href="/index.html" class="btn btn-secondary">Voltar ao Menu</a>
    </div>
  </div>
  <!-- Scripts -->
  <script src="/js/model.js"></script>
  <script src="/js/controller.js"></script>
  <script src="/js/view.js"></script>
</body>
</html>
```

File: consultar-frequencias-turma.html

```
=====

<!DOCTYPE html>
<html lang="pt-BR">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Consultar Frequências por Turma - Controle de Frequência</title>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">
  <link rel="stylesheet" href="/css/style.css">
</head>
<body>
  <div class="container py-4">
    <h1 class="mb-5 text-center">Consultar Frequências por Turma</h1>
    <div class="card">
      <div class="card-header">Consultar Frequências por Turma</div>
      <div class="card-body">
        <form id="formConsultaFrequencia">
          <div class="row">
            <div class="col-md-6 mb-3">
              <label for="turmaFrequencia" class="form-label">Turma</label>
              <select class="form-select" id="turmaFrequencia" required>
                <option value="" disabled selected>Selecione uma turma</option>
              </select>
            </div>
            <div class="col-md-6 mb-3">
              <label for="dataFrequencia" class="form-label">Data</label>
              <input type="date" class="form-control" id="dataFrequencia" required>
            </div>
          </div>
          <button type="submit" class="btn btn-primary w-100" id="btnConsultarFrequencia">Consultar</button>
        </form>
        <div id="relatorioFrequencia" class="mt-3"></div>
      </div>
    </div>
    <div class="mt-4 text-center">
      <a href="/index.html" class="btn btn-secondary">Voltar ao Menu</a>
    </div>
  </div>
  <!-- Scripts -->
  <script src="/js/model.js"></script>
  <script src="/js/controller.js"></script>
  <script src="/js/view.js"></script>
</body>
</html>
```

File: js\view.js

```
=====

// js/view.js
const View = {
  atualizarListaTurmas: async function () {
    if (!document.getElementById("turmaAluno")) return; // Só executa em cadastros.html
    try {
      const select = document.getElementById("turmaAluno");
      select.innerHTML = "";
      const defaultOption = document.createElement("option");
      defaultOption.value = "";
      defaultOption.textContent = "Selecione uma turma";
      defaultOption.disabled = true;
      defaultOption.selected = true;
      select.appendChild(defaultOption);
      const turmas = await Model.getTurmas();
      if (turmas.length === 0) {
        const option = document.createElement("option");
        option.value = "";
        option.textContent = "Nenhuma turma cadastrada";
        option.disabled = true;
        select.appendChild(option);
      } else {
        turmas.forEach((turma) => {
          const option = document.createElement("option");
          option.value = turma.id;
          option.textContent = `${turma.nome} (${turma.turno})`;
          select.appendChild(option);
        });
      }
    } catch (error) {
      console.error("Erro ao atualizar lista de turmas:", error);
      alert("Erro ao carregar turmas. Verifique o console para mais detalhes.");
    }
  },

  atualizarSeletorTurmas: async function (seletorId) {
    if (!document.getElementById(seletorId)) return;
    try {
      const select = document.getElementById(seletorId);
      select.innerHTML = "";
      const defaultOption = document.createElement("option");
      defaultOption.value = "";
      defaultOption.textContent = "Selecione uma turma";
      defaultOption.disabled = true;
      defaultOption.selected = true;
      select.appendChild(defaultOption);
      const turmas = await Model.getTurmas();
      if (turmas.length === 0) {
        const option = document.createElement("option");
        option.value = "";
```

```

    option.textContent = "Nenhuma turma cadastrada";
    option.disabled = true;
    select.appendChild(option);
  } else {
    turmas.forEach((turma) => {
      const option = document.createElement("option");
      option.value = turma.id;
      option.textContent = `${turma.nome} (${turma.turno})`;
      select.appendChild(option);
    });
  }
} catch (error) {
  console.error("Erro ao atualizar seletor de turmas:", error);
}
},

atualizarSeletorAlunos: async function (seletorId) {
  if (!document.getElementById(seletorId)) return;
  try {
    const select = document.getElementById(seletorId);
    select.innerHTML = "";
    const defaultOption = document.createElement("option");
    defaultOption.value = "";
    defaultOption.textContent = "Selecione um aluno";
    defaultOption.disabled = true;
    defaultOption.selected = true;
    select.appendChild(defaultOption);

    const alunos = await Model.getAlunos();
    const turmas = await Model.getTurmas(); // Busca as turmas para associar

    if (alunos.length === 0) {
      const option = document.createElement("option");
      option.value = "";
      option.textContent = "Nenhum aluno cadastrado";
      option.disabled = true;
      select.appendChild(option);
    } else {
      alunos.sort((a, b) => a.nome.localeCompare(b.nome));
      alunos.forEach((aluno) => {
        const turma = turmas.find((t) => t.id === aluno.turmaId); // Encontra a turma do aluno
        const turmaNome = turma ? turma.nome : "Turma não encontrada";
        const option = document.createElement("option");
        option.value = aluno.id;
        option.textContent = `${turmaNome} - ${aluno.nome}`; // Formato: "Turma - Nome"
        select.appendChild(option);
      });
    }
  } catch (error) {
    console.error("Erro ao atualizar seletor de alunos:", error);
  }
},

```

```

renderizarListaPresenca: async function (turmaId, data) {
  if (!document.getElementById("listaPresenca")) return;
  try {
    const container = document.getElementById("listaPresenca");
    container.innerHTML = "<p>Carregando lista de alunos...</p>";
    const alunos = await Model.getAlunosByTurma(turmaId);
    if (alunos.length === 0) {
      container.innerHTML = "<p>Nenhum aluno cadastrado para esta turma.</p>";
      return;
    }
    const presencas = await Model.getPresencasByTurmaData(turmaId, data);
    let registrosExistentes = [];
    if (presencas.length > 0) {
      registrosExistentes = presencas[0].registros;
    }
    const form = document.createElement("form");
    form.id = "formPresencaSubmit";
    form.classList.add("mb-4");
    const table = document.createElement("table");
    table.classList.add("table", "table-striped");
    const thead = document.createElement("thead");
    const headerRow = document.createElement("tr");
    const thNome = document.createElement("th");
    thNome.textContent = "Nome";
    const thPresenca = document.createElement("th");
    thPresenca.textContent = "Presente";
    headerRow.appendChild(thNome);
    headerRow.appendChild(thPresenca);
    thead.appendChild(headerRow);
    table.appendChild(thead);
    const tbody = document.createElement("tbody");
    alunos.forEach((aluno) => {
      const row = document.createElement("tr");
      const tdNome = document.createElement("td");
      tdNome.textContent = aluno.nome;
      const tdPresenca = document.createElement("td");
      const checkPresente = document.createElement("input");
      checkPresente.type = "checkbox";
      checkPresente.name = `aluno_${aluno.id}`;
      checkPresente.value = "presente";
      checkPresente.classList.add("form-check-input");
      checkPresente.dataset.alunoId = aluno.id;
      const registroExistente = registrosExistentes.find((r) => r.alunoId === aluno.id);
      if (registroExistente && registroExistente.presente) {
        checkPresente.checked = true;
      }
      tdPresenca.appendChild(checkPresente);
      row.appendChild(tdNome);
      row.appendChild(tdPresenca);
      tbody.appendChild(row);
    });
    table.appendChild(tbody);
    form.appendChild(table);
  }
}

```

```

const submitBtn = document.createElement("button");
submitBtn.type = "submit";
submitBtn.classList.add("btn", "btn-primary");
submitBtn.textContent = "Salvar Presenças";
form.appendChild(submitBtn);
container.innerHTML = "";
container.appendChild(form);

form.addEventListener("submit", async (event) => {
  event.preventDefault();
  const registros = [];
  alunos.forEach((aluno) => {
    const checkbox = document.querySelector(`input[data-aluno-id="${aluno.id}"]`);
    registros.push({
      alunoid: aluno.id,
      presente: checkbox.checked,
    });
  });
  try {
    await Model.registrarPresencas(turmalId, data, registros);
    alert("Presenças registradas com sucesso!");
    await this.renderizarListaPresenca(turmalId, data);
  } catch (error) {
    console.error("Erro ao salvar presenças:", error);
    alert("Erro ao salvar presenças. Verifique o console.");
  }
});
} catch (error) {
  console.error("Erro ao renderizar lista de presença:", error);
  const container = document.getElementById("listaPresenca");
  if (container) {
    container.innerHTML = "<p>Erro ao carregar lista. Verifique o console.</p>";
  }
},

```

```

renderizarRelatorioFrequencia: async function (turmalId, data) {
  if (!document.getElementById("relatorioFrequencia")) return;
  try {
    const container = document.getElementById("relatorioFrequencia");
    container.innerHTML = "<p>Carregando relatório de frequência...</p>";
    const turmas = await Model.getTurmas();
    const turma = turmas.find((t) => t.id === turmalId);
    if (!turma) {
      container.innerHTML = "<p>Turma não encontrada.</p>";
      return;
    }
    const presencas = await Model.getPresencasByTurmaData(turmalId, data);
    if (presencas.length === 0) {
      container.innerHTML = `<div class="alert alert-info">Não há registro de frequência para a turma ${turma.nome} na data ${data}</div>`;
      return;
    }
    const alunos = await Model.getAlunosByTurma(turmalId);

```



```

if (alunos.length === 0) {
  container.innerHTML = "<p>Nenhum aluno cadastrado para esta turma.</p>";
  return;
}
const reportHeader = document.createElement("div");
reportHeader.innerHTML = `
  <h3>Relatório de Frequência</h3>
  <p>Turma: ${turma.nome} (${turma.turno})</p>
  <p>Data: ${data}</p>
`;
const table = document.createElement("table");
table.classList.add("table", "table-striped");
const thead = document.createElement("thead");
const headerRow = document.createElement("tr");
const thNome = document.createElement("th");
thNome.textContent = "Nome";
const thStatus = document.createElement("th");
thStatus.textContent = "Status";
headerRow.appendChild(thNome);
headerRow.appendChild(thStatus);
thead.appendChild(headerRow);
table.appendChild(thead);
const tbody = document.createElement("tbody");
const registros = presencas[0].registros;
let presentes = 0;
let ausentes = 0;
alunos.forEach((aluno) => {
  const row = document.createElement("tr");
  const tdNome = document.createElement("td");
  tdNome.textContent = aluno.nome;
  const tdStatus = document.createElement("td");
  const registro = registros.find((r) => r.alunoid === aluno.id);
  if (registro && registro.presente) {
    tdStatus.textContent = "Presente";
    tdStatus.classList.add("text-success");
    presentes++;
  } else {
    tdStatus.textContent = "Ausente";
    tdStatus.classList.add("text-danger");
    ausentes++;
  }
  row.appendChild(tdNome);
  row.appendChild(tdStatus);
  tbody.appendChild(row);
});
table.appendChild(tbody);
const summary = document.createElement("div");
const total = alunos.length;
const percentPresentes = ((presentes / total) * 100).toFixed(1);
summary.innerHTML = `
  <p class="mt-3">
    <strong>Resumo:</strong> ${presentes} presentes (${percentPresentes}%) e ${ausentes} ausentes de um total de ${total} alunos.
  </p>

```

```

`;
container.innerHTML = "";
container.appendChild(reportHeader);
container.appendChild(table);
container.appendChild(summary);
} catch (error) {
  console.error("Erro ao renderizar relatório de frequência:", error);
  const container = document.getElementById("relatorioFrequencia");
  if (container) {
    container.innerHTML = "<p>Erro ao carregar relatório. Verifique o console para mais detalhes.</p>";
  }
}
},

```

```

renderizarRelatorioAluno: async function (alunoId) {
  if (!document.getElementById("relatorioAluno")) return;
  try {
    const container = document.getElementById("relatorioAluno");
    container.innerHTML = "<p>Carregando relatório do aluno...</p>";
    const alunos = await Model.getAlunos();
    const aluno = alunos.find((a) => a.id === alunoId);
    if (!aluno) {
      container.innerHTML = "<p>Aluno não encontrado.</p>";
      return;
    }
    const turmas = await Model.getTurmas();
    const turma = turmas.find((t) => t.id === aluno.turmaId);
    const historicoPresenca = await Model.getPresencasByAluno(alunoId);
    const reportHeader = document.createElement("div");
    reportHeader.innerHTML = `
      <h3>Relatório de Frequência Individual</h3>
      <p>Aluno: ${aluno.nome}</p>
      <p>Turma: ${turma ? `${turma.nome} (${turma.turno})` : "Não encontrada"}</p>
    `;
    if (historicoPresenca.length === 0) {
      container.innerHTML = "";
      container.appendChild(reportHeader);
      container.innerHTML += `<div class="alert alert-info">Não há registros de frequência para este aluno.</div>`;
      return;
    }
    const table = document.createElement("table");
    table.classList.add("table", "table-striped");
    const thead = document.createElement("thead");
    const headerRow = document.createElement("tr");
    const thData = document.createElement("th");
    thData.textContent = "Data";
    const thStatus = document.createElement("th");
    thStatus.textContent = "Status";
    headerRow.appendChild(thData);
    headerRow.appendChild(thStatus);
    thead.appendChild(headerRow);
    table.appendChild(thead);
    const tbody = document.createElement("tbody");

```

```

historicoPresenca.sort((a, b) => new Date(b.data) - new Date(a.data));
let presentes = 0;
let ausentes = 0;
historicoPresenca.forEach((registro) => {
  const row = document.createElement("tr");
  const tdData = document.createElement("td");
  tdData.textContent = registro.data;
  const tdStatus = document.createElement("td");
  if (registro.presente) {
    tdStatus.textContent = "Presente";
    tdStatus.classList.add("text-success");
    presentes++;
  } else {
    tdStatus.textContent = "Ausente";
    tdStatus.classList.add("text-danger");
    ausentes++;
  }
  row.appendChild(tdData);
  row.appendChild(tdStatus);
  tbody.appendChild(row);
});
table.appendChild(tbody);
const summary = document.createElement("div");
const total = historicoPresenca.length;
const percentPresentes = ((presentes / total) * 100).toFixed(1);
summary.innerHTML = `
  <p class="mt-3">
    <strong>Resumo:</strong> Presente em ${presentes} de ${total} aulas (${percentPresentes}% de frequência).
  </p>
`;
container.innerHTML = "";
container.appendChild(reportHeader);
container.appendChild(table);
container.appendChild(summary);
} catch (error) {
  console.error("Erro ao renderizar relatório do aluno:", error);
  const container = document.getElementById("relatorioAluno");
  if (container) {
    container.innerHTML = "<p>Erro ao carregar relatório. Verifique o console para mais detalhes.</p>";
  }
},
};

```

File: package.json

```
=====

{
  "name": "controle-frequencia",
  "version": "1.0.0",
  "description": "Sistema simples para controle de presença de alunos",
  "main": "server.js",
  "scripts": {
    "start": "node server.js",
    "dev": "nodemon server.js"
  },
  "keywords": [
    "frequencia",
    "alunos",
    "controle"
  ],
  "author": "Marques Vinícius Melo Martins",
  "license": "MIT",
  "dependencies": {
    "@supabase/supabase-js": "^2.49.4",
    "cors": "^2.8.5",
    "express": "^4.18.2",
    "uuid": "^9.0.1"
  },
  "devDependencies": {
    "nodemon": "^3.0.1"
  }
}
```

File: js\controller.js

```
=====

// js/controller.js
const Controller = {
  init: async function () {
    const path = window.location.pathname;
    if (path.includes("cadastros.html")) {
      this.initCadastros();
    } else if (path.includes("marcar-presenca.html")) {
      this.initMarcarPresenca();
    } else if (path.includes("consultar-frequencias-turma.html")) {
      this.initConsultarFrequencia();
    } else if (path.includes("relatorio-frequencias-aluno.html")) {
      this.initRelatorioAluno();
    }
  },

  initCadastros: async function () {
    const formTurma = document.getElementById("formTurma");
    const formAluno = document.getElementById("formAluno");
    if (formTurma) {
      formTurma.addEventListener("submit", this.handleAddTurma.bind(this));
    }
    if (formAluno) {
      formAluno.addEventListener("submit", this.handleAddAluno.bind(this));
    }
    await View.atualizarListaTurmas(); // Popula o <select> de turmas para cadastro de aluno
  },

  initMarcarPresenca: async function () {
    const formPresenca = document.getElementById("formPresenca");
    if (formPresenca) {
      formPresenca.addEventListener("submit", this.handleLoadAttendanceList.bind(this));
      document.getElementById("dataPresenca").max = new Date().toISOString().split("T")[0];
    }
    await View.atualizarSeletorTurmas("turmaPresenca");
  },

  initConsultarFrequencia: async function () {
    const formConsultaFrequencia = document.getElementById("formConsultaFrequencia");
    if (formConsultaFrequencia) {
      formConsultaFrequencia.addEventListener("submit", this.handleShowClassReport.bind(this));
    }
    await View.atualizarSeletorTurmas("turmaFrequencia");
  },

  initRelatorioAluno: async function () {
    const formRelatorioAluno = document.getElementById("formRelatorioAluno");
    if (formRelatorioAluno) {
      formRelatorioAluno.addEventListener("submit", this.handleShowStudentReport.bind(this));
    }
  }
}
```

```
    await View.atualizarSeletorAlunos("alunoRelatorio");
  },
```

```
handleAddTurma: async function (event) {
  event.preventDefault();
  const nomeTurma = document.getElementById("nomeTurma").value;
  const turnoTurma = document.getElementById("turnoTurma").value;
  try {
    const novaTurma = await Model.addTurma(nomeTurma, turnoTurma);
    if (novaTurma) {
      alert(`Turma "${nomeTurma}" cadastrada com sucesso!`);
      document.getElementById("formTurma").reset();
      await View.atualizarListaTurmas();
    } else {
      alert("Erro ao cadastrar turma. Tente novamente.");
    }
  } catch (error) {
    console.error("Erro ao adicionar turma:", error);
    alert("Erro ao cadastrar turma. Verifique o console para mais detalhes.");
  }
},
```

```
handleAddAluno: async function (event) {
  event.preventDefault();
  const nomeAluno = document.getElementById("nomeAluno").value;
  const turmaId = document.getElementById("turmaAluno").value;
  try {
    const novoAluno = await Model.addAluno(nomeAluno, turmaId);
    if (novoAluno) {
      alert(`Aluno "${nomeAluno}" cadastrado com sucesso!`);
      document.getElementById("formAluno").reset();
    } else {
      alert("Erro ao cadastrar aluno. Tente novamente.");
    }
  } catch (error) {
    console.error("Erro ao adicionar aluno:", error);
    alert("Erro ao cadastrar aluno. Verifique o console para mais detalhes.");
  }
},
```

```
handleLoadAttendanceList: async function (event) {
  event.preventDefault();
  const turmaId = document.getElementById("turmaPresenca").value;
  const data = document.getElementById("dataPresenca").value;
  try {
    if (!turmaId || !data) {
      alert("Por favor, selecione uma turma e uma data.");
      return;
    }
    await View.renderizarListaPresenca(turmaId, data);
  } catch (error) {
    console.error("Erro ao carregar lista de presença:", error);
    alert("Erro ao carregar lista de presença. Verifique o console para mais detalhes.");
  }
}
```

```
}  
},
```

```
handleShowClassReport: async function (event) {  
  event.preventDefault();  
  const turmaId = document.getElementById("turmaFrequencia").value;  
  const data = document.getElementById("dataFrequencia").value;  
  try {  
    if (!turmaId || !data) {  
      alert("Por favor, selecione uma turma e uma data.");  
      return;  
    }  
    await View.renderizarRelatorioFrequencia(turmaId, data);  
  } catch (error) {  
    console.error("Erro ao exibir relatório de frequência:", error);  
    alert("Erro ao exibir relatório de frequência. Verifique o console para mais detalhes.");  
  }  
},
```

```
handleShowStudentReport: async function (event) {  
  event.preventDefault();  
  const alunoId = document.getElementById("alunoRelatorio").value;  
  try {  
    if (!alunoId) {  
      alert("Por favor, selecione um aluno.");  
      return;  
    }  
    await View.renderizarRelatorioAluno(alunoId);  
  } catch (error) {  
    console.error("Erro ao exibir relatório do aluno:", error);  
    alert("Erro ao exibir relatório do aluno. Verifique o console para mais detalhes.");  
  }  
},  
};
```

```
document.addEventListener("DOMContentLoaded", function () {  
  Controller.init();  
});
```

File: relatorio-frequencias-aluno.html

```
=====

<!DOCTYPE html>
<html lang="pt-BR">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Relatório de Frequências por Aluno - Controle de Frequência</title>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">
  <link rel="stylesheet" href="/css/style.css">
</head>
<body>
  <div class="container py-4">
    <h1 class="mb-5 text-center">Relatório de Frequências por Aluno</h1>
    <div class="card">
      <div class="card-header">Relatório de Frequências por Aluno</div>
      <div class="card-body">
        <form id="formRelatorioAluno">
          <div class="mb-3">
            <label for="alunoRelatorio" class="form-label">Aluno</label>
            <select class="form-select" id="alunoRelatorio" required>
              <option value="" disabled selected>Selecione um aluno</option>
            </select>
          </div>
          <button type="submit" class="btn btn-primary w-100" id="btnConsultarRelatorioAluno">Consultar</button>
        </form>
        <div id="relatorioAluno" class="mt-3"></div>
      </div>
    </div>
    <div class="mt-4 text-center">
      <a href="/index.html" class="btn btn-secondary">Voltar ao Menu</a>
    </div>
  </div>
  <!-- Scripts -->
  <script src="/js/model.js"></script>
  <script src="/js/controller.js"></script>
  <script src="/js/view.js"></script>
</body>
</html>
```


File: data\turmas.json

=====

```
[
  {
    "id": "a9575ad5-5fce-44c8-9296-a8c4b97c824b",
    "nome": "Turma A1",
    "turno": "Manhã",
    "dataCriacao": "2025-04-06T23:33:42.977Z"
  },
  {
    "id": "493225ed-63bc-4eb8-a0a4-644499c3e7a4",
    "nome": "Turma B2",
    "turno": "Tarde",
    "dataCriacao": "2025-04-06T23:35:54.493Z"
  }
]
```

