## PROJECT TREE

```
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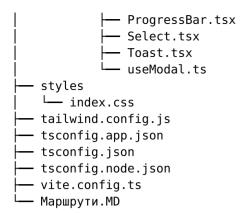
    features

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            ── Modal.tsx
```

# PROJECT TREE



## .gitignore

```
# Logs
logs
*.log
npm-debug.log*
yarn-debug.log*
yarn-error.log*
pnpm-debug.log*
lerna-debug.log*

node_modules
dist
dist-ssr
*.local

# Editor directories and files
.vscode/*
!.vscode/extensions.json
.idea
.DS_Store
*.suo
*.ntvs*
*.njsproj
*.sln
*.sw?
/public/
/Маршрути.MD
```

## README.md

stripe listen --forward-to localhost:8000/v1/payments/webhook 4242 4242 4242 4242

```
import js from '@eslint/js'
import globals from 'globals'
import reactHooks from 'eslint-plugin-react-hooks'
import reactRefresh from 'eslint-plugin-react-refresh'
import tseslint from 'typescript-eslint'
import { globalIgnores } from 'eslint/config'

export default tseslint.config([
    globalIgnores(['dist']),
    {
       files: ['**/*.{ts,tsx}'],
       extends: [
        js.configs.recommended,
        tseslint.configs.recommended,
        reactHooks.configs['recommended-latest'],
        reactRefresh.configs.vite,
        ],
        languageOptions: {
        ecmaVersion: 2020,
            globals: globals.browser,
        },
    },
    ])
```

## index.html

```
{
    "name": "3d-print-frontend",
    "private": true,
    "version": "0.0.0",
    "type": "module",
    "scripts": {
        "dev": "vite",
        "build": "tsc -b && vite build",
        "lint": "eslint .",
        "preview": "vite preview"
},
    "dependencies": {
        "react": "^19.1.1",
        "react-dom": "^19.1.1"
},
    "devDependencies": {
        "@eslint/js": "^9.33.0",
        "@tailwindcss/coli": "^4.1.12",
        "@types/node": "^24.2.1",
        "@types/react": "^19.1.10",
        "@types/react-dom": "^19.1.7",
        "@vitejs/plugin-react": "^5.0.0",
        "autoprefixer": "^10.4.21",
        "eslint-plugin-react-hooks": "^5.2.0",
        "eslint-plugin-react-refresh": "^0.4.20",
        "globals": "^16.3.0",
        "postcss": "^8.5.6",
        "react-router-dom": "^7.8.0",
        "tailwindcss": "^4.1.12",
        "typescript": "~5.8.3",
        "typescript-eslint": "^8.39.1",
        "vite": "^7.1.2"
}
}
```

# postcss.config.js

```
export default {
    plugins: {
        '@tailwindcss/postcss': {},
        autoprefixer: {},
    },
}
```

```
Usage:
  python repo doc to pdf.py --root . --out codebook.pdf --max-bytes 800000 --wrap 100
  --root — корінь проєкту
  --out — шлях до PDF
  --max-bytes — великі файли пропускаються
--wrap — ширина переносу рядків у символах
import os, sys, argparse, textwrap, pathlib, unicodedata
import matplotlib as mpl
import matplotlib.pyplot as plt
from matplotlib.backends.backend pdf import PdfPages
    import chardet
except Exception:
    chardet = None
# Безпечно відрубуємо TeX/MathText
mpl.rcParams["text.usetex"] = False
mpl.rcParams["mathtext.default"] = "rm"
EXCLUDE DIRS = {
    ".git", ".venv", "__pycache__", ".idea", ".mypy_cache", ".pytest_cache", "node_modules", "dist", "build", ".DS_Store"
ÉXCLUDE EXTS = {
    ".png", ".jpg", ".jpeg", ".webp", ".gif", ".ico", ".pdf",
".zip", ".tar", ".gz", ".7z", ".mp4", ".mov", ".mp3", ".wav"
}
EXCLUDE FILES = {".env", "celerybeat-schedule", "package-lock.json"}
def is_text_file(path: str) -> bool:
    ext = pathlib.Path(path).suffix.lower()
if ext in EXCLUDE_EXTS:
         return False
    try:
         with open(path, "rb") as f:
             chunk = f.read(4096)
         if not chunk:
             return True
         # справжній нуль-байт
         if b"\x00" in chunk:
             return False
         return True
    except Exception:
         return False
def detect encoding(data: bytes) -> str:
    if chardet:
         try:
              enc = chardet.detect(data).get("encoding")
              if enc:
                  return enc
         except Exception:
    pass
return "utf-8"
def read_text(path: str, max_bytes: int) -> str:
    with open(path, "rb") as f:
         data = f.read()
    if len(data) > max bytes:
         return f"[SKIPPED: file too large ({len(data)} bytes)]"
    enc = detect_encoding(data)
    try:
         return data.decode(enc, errors="replace")
    except Exception:
         try:
             return data.decode("utf-8", errors="replace")
         except Exception:
              return data.decode("latin-1", errors="replace")
```

```
def walk files(root: str):
    for \overline{\text{d}}\text{irpath}, dirnames, filenames in os.walk(root):
         dirnames[:] = [d for d in dirnames if d not in EXCLUDE_DIRS and not d.startswith(".tox")]
for fn in sorted(filenames):
             if fn in EXCLUDE FILES:
                  continue
              full = os.path.join(dirpath, fn)
              rel = os.path.relpath(full, root)
              if not is_text_file(full):
                  continue
             yield rel, full
def build_tree_text(root: str) -> str:
    lines = []
    base = os.path.basename(os.path.abspath(root)) or root
    lines.append(f"{base}/")
def _print_tree(startpath, prefix=""):
         try:
             items = sorted(
                   [n for n in os.listdir(startpath)
                    if n not in EXCLUDE_DIRS and n not in EXCLUDE_FILES]
         except FileNotFoundError:
             return
         for i, name in enumerate(items):
             path = os.path.join(startpath, name)
             connector = "\vdash" if i == len(items) - 1 else "\vdash"
             lines.append(prefix + connector + name)
             if os.path.isdir(path):
                  extension = " " if i == len(items) - 1 else "
                   print tree(path, prefix + extension)
    _print_tree(root)
return "\n".join(lines)
def sanitize text(s: str) -> str:
     """Нормалізація для Matplotlib PDF:
    - заміна всіх '□' → '□' (U+FF04), щоб повністю вимкнути mathtext - дроп NULL/контрольні (крім \t \n \r), variation selectors, ZWJ/ZWNJ - дроп не-ВМР (емодзі), щоб бекенд PDF не падав
    - маппінг деяких проблемних гліфів на ASCII
    if not s:
        return s
    # повністю вимкнути mathtext
s = s.replace('□', '□')
    out = []
    for ch in s:
         code = ord(ch)
         if ch == '\x00':
             continue
         cat = unicodedata.category(ch)
         if cat.startswith('C') and ch not in ('\t', '\n', '\r'):
              continue
         if code in (0xFE0F, 0x200D, 0x200C): # VS16, ZWJ, ZWNJ
             continue
         if code > 0xFFFF: # emoji / non-BMP
             continue
         if ch in {'v', 'v'}:
    ch = 'v'
    out.append(ch)
return ''.join(out)
def add_text_pages(pdf: PdfPages, title: str, text: str, wrap_width=100, font_size=9,
header_size=11):
    # sanitize early
    title = sanitize text(title)
    text = sanitize_text(text)
    # A4 portrait
    page \dot{w}, page h = 8.27, 11.69
    left_margin, right_margin, top_margin, bottom_margin = 0.5, 0.5, 0.7, 0.7
```

```
usable height = page h - top margin - bottom margin
   # wrap text
   wrapped_lines = []
    for line in text.splitlines():
        line = sanitize text(line.expandtabs(4))
        wrapped lines.extend(textwrap.wrap(line, width=wrap width, replace whitespace=False) or
[""])
    # simple line-height calc
    line_height_in = (font_size * 1.2) / 72.0
    lines per page = max(1, int(usable height / line height in) - 4)
    for page_idx in range(0, len(wrapped_lines) or 1, lines_per_page):
        fig = plt.figure(figsize=(page_w, page_h))
       ax = fig.add_axes([0, 0, 1, 1])
ax.axis("off")
        # header
        # body
        chunk = wrapped_lines[page_idx: page_idx + lines_per_page]
body_text = "\n".join(chunk) if chunk else ""
       plt.close(fig)
def main():
    ap = argparse.ArgumentParser()
    argument("--root", default=".", help="Project root directory")
ap.add_argument("--out", default="codebook.pdf", help="Output PDF path")
    ap.add argument("--max-bytes", type=int, default=800000, help="Skip files larger than this many
bytes")
   ap.add argument("--wrap", type=int, default=100, help="Characters per line for wrapping")
   args = ap.parse args()
    tree_text = build_tree_text(args.root)
   with PdfPages(args.out) as pdf:
    add_text_pages(pdf, "PROJECT TREE", tree_text, wrap_width=args.wrap, font_size=9,
header_size=12)
        for rel, full in walk_files(args.root):
            if not is text file(full):
                continue
            try:
                content = read_text(full, args.max_bytes)
            except Exception as e:
                content = f"[ERROR reading file: {e}]"
            add_text_pages(pdf, rel, content, wrap_width=args.wrap, font size=8, header size=10)
            == "__main__":
    name
   main()
```

# tailwind.config.js

```
/** @type {import('tailwindcss').Config} */
export default {
   content: ["./index.html", "./src/**/*.{ts,tsx,js,jsx}"],
   theme: { extend: {} },
   plugins: [],
}
```

## tsconfig.app.json

```
{
  "extends": "./tsconfig.json",
  "compilerOptions": {
    "tsBuildInfoFile": "./node_modules/.tmp/tsconfig.app.tsbuildinfo",
    "target": "ES2022",
    "useDefineForClassFields": true,
    "lib": ["ES2022", "DOM", "DOM.Iterable"],
    "module": "ESNext",
    "skipLibCheck": true,

    /* Bundler mode */
    "moduleResolution": "bundler",
    "allowImportingTsExtensions": true,
    "verbatimModuleSyntax": true,
    "moduleDetection": "force",
    "noEmit": true,
    "jsx": "react-jsx",

    /* Linting */
    "strict": true,
    "noUnusedLocals": true,
    "noUnusedParameters": true,
    "erasableSyntaxOnly": true,
    "noFallthroughCasesInSwitch": true,
    "noFallthroughCaseInSwitch": true,
    "moHoncheckedSideEffectImports": true,

    "baseUrl": ".",
    "paths": {
        "@/*": ["src/*"]
    },
    "types": ["vite/client", "node"]
    },
    "include": ["src"]
}
```

# tsconfig.json

```
{
  "compilerOptions": {
    "baseUrl": ".",
    "paths": { "@/*": ["src/*"] },
    "types": ["vite/client", "node"],
    "moduleResolution": "bundler"
},
  "files": [],
  "references": [
    { "path": "./tsconfig.app.json" },
    { "path": "./tsconfig.node.json" }
]
```

## tsconfig.node.json

```
{
  "compilerOptions": {
    "tsBuildInfoFile": "./node_modules/.tmp/tsconfig.node.tsbuildinfo",
    "target": "ES2023",
    "lib": ["ES2023"],
    "module": "ESNext",
    "skipLibCheck": true,

    /* Bundler mode */
    "moduleResolution": "bundler",
    "allowImportingTsExtensions": true,
    "verbatimModuleSyntax": true,
    "moduleDetection": "force",
    "noEmit": true,

    /* Linting */
    "strict": true,
    "noUnusedLocals": true,
    "noUnusedParameters": true,
    "erasableSyntaxOnly": true,
    "noFallthroughCasesInSwitch": true,
    "noUncheckedSideEffectImports": true
},
    "include": ["vite.config.ts"]
```

## vite.config.ts

```
import { defineConfig } from 'vite'
import react from '@vitejs/plugin-react'
import { fileURLToPath, URL } from 'node:url'

export default defineConfig({
    plugins: [react()],
    resolve: {
        alias: { '@': fileURLToPath(new URL('./src', import.meta.url)) },
    },
})
```

#### Маршрути.MD

```
→ Welcome (простий екран)
,
/login
                              → LoginPage
/upload
                              → UploadPage
                              → QuotePage (?model=ID)
/quote
                              → CartPage
/cart
                              → OrderSťatusPage
/order
/checkout/success
                              → CheckoutSuccessPage (?session id=...)
                              → CheckoutCancelPage
/checkout/cancel
                              → WorkshopPage (admin, guard)
/workshop
АРІ-контракти (під фронт)
POST /v1/auth/login { email, password } -> { access_token }
POST /v1/files/presign-upload { content type } -> { url, key, bucket }
PUT <url> (file, header Content-Type)
POST /v1/files/complete { key, content type } -> { upload, model }
Materials
GET /v1/materials -> [{ id, name, ...}] (для селектора матеріалу)
POST /v1/quotes { model_id, material_id, layer_height, infill, qty } -> { id, price_eur, breakdown } POST /v1/cart/add/{quote_id} { qty? } -> { item_id, qty }
Cart/Orders/Payments
GET /v1/cart -> {...} (необов'язково, для інспекції)
POST /v1/orders/checkout -> { order_id, total_eur, status }
POST /v1/payments/checkout { order_id } -> { checkout_url, session_id }
Orders/PrintJobs
GET /v1/orders/{id} -> { id, status, total_eur, ... }
GET /v1/orders/{id}/print-jobs -> [{ id, status, progress, ...}]
(admin) GET /v1/print-jobs -> [...]
(admin) POST /v1/print-jobs/{id}/preflight
(admin) POST /v1/print-jobs/{id}/start|pause|resume|cancel
```

#### public\vite.svg

<svg xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" aria-hidden="true" role="img" class="iconify iconify--logos" width="31.88" height="32" preserveAspectRatio="XMidYMid meet" viewBox="0 0 256 257"><defs>inearGradient id="IconifyId1813088felfbc01fb466" xl="-.828%" x2="57.636%" yl="7.652%" y2="78.411%"><stop offset="0%" stop-color="#41D1FF"></stop><stop offset="100%" stop-color="#4D34FE"></stop>
</rr>
color="#BD34FE"></stop>
/stop>
/stop>
/stop>
/stop>
/stop>
/stop>
/stop>
/stop offset="0%" stop-color="#FFEA83">
/stop>
/stop
/s

#### src\app\App.tsx

```
import { Routes, Route, Navigate } from "react-router-dom";
import (NavBar from "./layout/NavBar";
import Page from "./layout/Page";
import { routes } from "./routes";
export default function App() {
    return (
        <div className="min-h-dvh bg-neutral-50 text-neutral-900">
             <NavBar />
<main className="max-w-5xl mx-auto px-4 py-8">
                  <Routes>
                      {/* Головна-«привітання» */}
<Route path="/" element={<Page title="3D-Print Shop MVP">
                           <div className="space-y-2">
                               >Ласкаво просимо. Пройдімо шлях: Upload → Quote → Cart/Checkout →
Order Status → Workshop.
                               Спочатку залогінься.
                           </div>
                      </Page>} />
                       {/* Декларації сторінок із routes.tsx */}
                       {routes.map(r => (
                           <Route key={r.path} path={r.path} element={<r.element />} />
                      {/* запасний редірект */}
<Route path="*" element={<Navigate to="/" replace />} />
                  </Routes>
             </main>
        </div>
    );
}
```

### src\app\main.tsx

#### src\app\routes.tsx

# src\app\vite-env.d.ts

/// <reference types="vite/client" />

### src\app\layout\NavBar.tsx

```
import { Link, NavLink, useNavigate } from "react-router-dom";
import LanguageSwitcher from "@/shared/ui/LanguageSwitcher";
import { isAdmin } from "@/shared/auth/role";
function Item({ to, children }: { to: string; children: React.ReactNode }) {
     return (
          <NavLink
               to={to}
               className={({ isActive }) =>
                    "px-3 py-1.5 rounded-md text-sm " + (isActive ? "bg-black text-white" : "hover:bg-neutral-200")
               {children}
          </NavLink>
     );
}
export default function NavBar() {
     const nav = useNavigate();
     const token = localStorage.getItem("token");
     const logout = () => {
          localStorage.removeItem("token");
          nav("/login");
     };
     return (
          <header className="border-b bg-white">
               <nav className="flex items-center gap-2">
                         <Item to="/upload">Upload</Item>
<Item to="/quote">Quote</Item>

<
                         {isAdmin() && <Item to="/workshop">Workshop</Item>}
                    </nav>
                    <div className="ml-auto flex items-center gap-3">
                         <LanguageSwitcher />
                    </div>
                    <div className="flex items-center gap-2">
                              <Item to="/login">Login</Item>
                              <button onClick={logout} className="px-3 py-1.5 rounded-md text-sm bg-</pre>
neutral-900 text-white">
                                   Logout
                              </button>
                         )}
                    </div>
               </div>
          </header>
     );
}
```

## src\app\layout\Page.tsx

#### src\assets\react.svg

```
<svg xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" aria-</pre>
hidden="true" role="img" class="iconify iconify--logos" width="35.93" height="32" preserveAspectRatio="xMidYMid meet" viewBox="0 0 256 228"><path fill="#00D8FF" d="M210.483 73.824a171.49 171.49 0 0 0-8.24-2.597c.465-1.9.893-3.777 1.273-5.621c6.238-30.281 2.16-54.676-11.769-62.708c-13.355-7.7-35.196.329-57.254 19.526a171.23 171.23 0 0 0-6.375
 5.848a155.866 155.866 0 0 0-4.241-3.917C100.759 3.829 77.587-4.822 63.673 3.233C50.33 10.957 46.379
 33.89 51.995 62.588a170.974 170.974 0 0 0 1.892 8.48c-3.28.932-6.445 1.924-9.474 2.98C17.309 83.498
 0 98.307 0 113.668c0 15.865 18.582 31.778 46.812 41.427a145.52 145.52 0 0 0 6.921 2.165a167.467
98.307 0 113.608C0 15.805 16.382 31.776 40.812 41.4278143.32 145.32 0 0 0 6.921 2.1638167.46
167.467 0 0 0-2.01 9.138c-5.354 28.2-1.173 50.591 12.134 58.266c13.744 7.926 36.812-.22
59.273-19.855a145.567 145.567 0 0 0 5.342-4.923a168.064 168.064 0 0 0 6.92 6.314c21.758 18.722
43.246 26.282 56.54 18.586c13.731-7.949 18.194-32.003 12.4-61.268a145.016 145.016 0 0
0-1.535-6.842c1.62-.48 3.21-.974 4.76-1.488c29.348-9.723 48.443-25.443
 48.443-41.52c0-15.417-17.868-30.326-45.517-39.844Zm-6.365 70.984c-1.4.463-2.836.91-4.3
 1.345c - 3.24 - 10.257 - 7.612 - 21.163 - 12.963 - 32.432c5 \cdot 106 - 11 \\ 9.31 - 21.767 \\ 12.459 - 31.957c2 \cdot 619.758 \\ 5.16 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 12.459 - 1
1.557 7.61 2.4c23.69 8.156 38.14 20.213 38.14 29.504c0 9.896-15.606 22.743-40.946 31.14Zm-10.514 20.834c2.562 12.94 2.927 24.64 1.23 33.787c-1.524 8.219-4.59 13.698-8.382 15.893c-8.067 4.67-25.32-1.4-43.927-17.412a156.726 156.726 0 0 1-6.437-5.87c7.214-7.889 14.423-17.06
 21.459-27.246c12.376-1.098 24.068-2.894 34.671-5.345a134.17 134.17 0 0 1 1.386 6.193ZM87.276
 214.515c - 7.882 \ 2.783 - 14.16 \ 2.863 - 17.955.675c - 8.075 - 4.657 - 11.432 - 22.636 - 6.853 - 46.752a 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923 \ 156.923
 0 0 1 1.869-8.499c10.486 2.32 22.093 3.988 34.498 4.994c7.084 9.967 14.501 19.128 21.976
 27.15a134.668 134.668 0 0 1-4.877 4.492c-9.933 8.682-19.886 14.842-28.658 17.94ZM50.35
 144.747c-12.483-4.267-22.792-9.812-29.858-15.863c-6.35-5.437-9.555-10.836-9.555-15.216c0-9.322
13.897-21.212 37.076-29.293c2.813-.98 5.757-1.905 8.812-2.773c3.204 10.42 7.406 21.315 12.477 32.332c-5.137 11.18-9.399 22.249-12.634 32.792a134.718 134.718 0 0
 1-6.318-1.979\\ Zm12.378-84.26c-4.811-24.587-1.616-43.134\ 6.425-47.789\\ c8.564-4.958\ 27.502\ 2.111\ 47.463
19.835a144.318 144.318 0 0 1 3.841 3.545c-7.438 7.987-14.787 17.08-21.808 26.988c-12.04 1.116-23.565 2.908-34.161 5.309a160.342 160.342 0 0 1-1.76-7.887Zm110.427 27.268a347.8 347.8 0 0
0-7.785-12.803c8.168 1.033 15.994 2.404 23.343 4.08c-2.206 7.072-4.956 14.465-8.193 22.045a381.151 381.151 0 0 0-7.365-13.322Zm-45.032-43.861c5.044 5.465 10.096 11.566 15.065 18.186a322.04 322.04 0 0
0-30.257-.006c4.974-6.559 10.069-12.652 15.192-18.18ZM82.802 87.83a323.167 323.167 0 0 0-7.227 13.238c-3.184-7.553-5.909-14.98-8.134-22.152c7.304-1.634 15.093-2.97 23.209-3.984a321.524 321.524 0
 0\ 0-7.848\ 12.897 \\ \text{Zm} \\ 8.081\ 65.352 \\ \text{c}-8.385-.936-16.291-2.203-23.593-3.793 \\ \text{c}2.26-7.3\ 5.045-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.885-14.
8.298-22.6a321.187 321.187 0 0 0 7.257 13.246c2.594 4.48 5.28 8.868 8.038 13.147Zm37.542 31.03c-5.184-5.592-10.354-11.779-15.403-18.433c4.902.192 9.899.29 14.978.29c5.218 0 10.376-.117 15.453-.343c-4.985 6.774-10.018 12.97-15.028 18.486Zm52.198-57.817c3.422 7.8 6.306 15.345 8.596 22.52c-7.422 1.694-15.436 3.058-23.88 4.071a382.417 382.417 0 0 0 7.859-13.026a347.403 347.403 0 0
 7.425 - 13.565 \\ \text{Zm} - 16.898 \quad 8.101 \\ \text{a} 358.557 \quad 358.557 \quad 0 \quad 0 \quad 1 - 12.281 \quad 19.815 \\ \text{a} 329.4 \quad 0 \quad 0 \quad 1 - 23.444.823 \\ \text{c} - 7.967 \quad 19.815 \\ \text{c} - 7.967 
 0-15.716-.248-23.178-.732a310.202 310.202 0 0 1-12.513-19.846h.001a307.41 307.41 0 0
 1-10.923-20.627a310.278 310.278 0 0 1 10.89-20.637l-.001.001a307.318 307.318 0 0 1
12.413-19.761c7.613-.576 15.42-.876 23.31-.876H128c7.926 0 15.743.303 23.354.883a329.357 329.357 0 0 1 12.335 19.695a358.489 358.489 0 0 1 11.036 20.54a329.472 329.472 0 0 1-11
 20.722Zm22.56-122.124c8.572 4.944 11.906 24.881 6.52 51.026c-.344 1.668-.73 3.367-1.15
 5.09c - 10.622 - 2.452 - 22.155 - 4.275 - 34.23 - 5.408c - 7.034 - 10.017 - 14.323 - 19.124 - 21.64 - 27.008a \\ 160.789 \\ 160.789
 0 0 1 5.888-5.4c18.9-16.447 36.564-22.941 44.612-18.3ZM128 90.808c12.625 0 22.86 10.235 22.86
 22.86s-10.235 22.86-22.86 22.86s-22.86-10.235-22.86-22.86s10.235-22.86 22.86-22.86Z"></path></svg>
```

```
import Page from "@/app/layout/Page";
import { API } from "@/shared/api/endpoints";
import { api } from "@/shared/api/client";
import { useNavigate } from "react-router-dom";
import { useState } from "react";
import type { LoginReq, LoginRes } from "@/shared/api/types";
export default function LoginPage() {
    const nav = useNavigate();
    const [email, setEmail] = useState("admin@example.com");
    const [password, setPassword] = useState("admin");
    const [loading, setLoading] = useState(false);
const [err, setErr] = useState<string | null>(null);
    const submit = async (e: React.FormEvent) => {
        e.preventDefault();
        setErr(null); setLoading(true);
         try {
             const body: LoginReq = { email, password };
             const res = await api<LoginRes>(API.login, {
                 method: "POST"
                 body: JSON.stringify(body),
             localStorage.setItem("token", res.access token);
             nav("/upload"); // після логіна одразу на Upload
        } catch (e: any) {
    setErr(e?.message || "Login failed");
        } finally {
             setLoading(false);
        }
    };
    return (
         <Page title="Login">
             <form onSubmit={submit} className="grid gap-3 max-w-sm">
                 <label className="grid gap-1">
                      <span className="text-sm">Email</span>
                      <input
                          type="email"
                          className="rounded-md border px-3 py-2"
                          value={email}
                          onChange={e => setEmail(e.target.value)}
                          autoComplete="username'
                      />
                 </label>
                 <label className="grid gap-1">
                      <span className="text-sm">Password</span>
                      <input
                          type="password"
                          className="rounded-md border px-3 py-2"
                          value={password}
                          onChange={e => setPassword(e.target.value)}
                          autoComplete="current-password"
                 </label>
                 {err && <div className="text-sm text-red-700">{err}</div>}
                      type="submit"
                      disabled={loading}
                      className="rounded-md bg-black text-white px-4 py-2 disabled:opacity-50"
                      {loading ? "Signing in..." : "Sign in"}
                 </button>
             </form>
             <div className="mt-4 text-sm text-neutral-600">
                 Demo: <code>admin@example.com / admin</code> a6o <code>user@example.com /
user</code>
             </div>
        </Page>
    ):
```

}

```
import Page from "@/app/layout/Page";
import { api } from "@/shared/api/client";
import { API } from "@/shared/api/endpoints";
import { Mily from "@/shared/ui/Modal";
import { useModal } from "@/shared/ui/useModal";
import { useEffect, useMemo, useState } from "react";
import { useLocale } from "@/shared/i18n/LocaleContext";
type CartItem = {
    id: number;
    quote id: number;
    qty: number;
    unit price: number;
                               // € за шт
                               // € за позицію
    subtotal: number;
    quote: {
        id: number;
        price_eur: string;
        settings_json: any;
        material: { id: number; name?: string | null; color?: string | null };
    }
};
type CartResp = {
    id: number | null;
    items: CartItem[];
    total eur: string;
                               // cvма за кошик
export default function CartPage() {
    const { locale } = useLocale();
    const [data, setData] = useState<CartResp | null>(null);
    const [loading, setLoading] = useState(false);
    const [busy, setBusy] = useState(false);
    const [error, setError] = useState<string | null>(null);
    const redirecting = useModal(false);
    const failed = useModal(false);
    async function load() {
        setLoading(true);
        try {
             const cart = await api<CartResp>(API.cart.me + `?locale=\[{locale}`);
             setData(cart);
        } catch (e: any) {
            setError(e?.message || "Не вдалося завантажити кошик");
             failed.show();
        } finally {
    setLoading(false);
    }
    useEffect(() => { load(); }, [locale]);
    async function removeItem(id: number) {
        setBusy(true);
        try {
             await api(API.cart.remove(id), { method: "DELETE" });
            await load();
        } catch (e: any) {
             setError(e?.message || "Не вдалося видалити позицію");
             failed.show();
        } finally {
            setBusy(false);
    async function setQty(itemId: number, next: number) {
        setBusy(true);
        try {
            await api(API.cart.update(itemId), {
                 method: "PATCH"
                 body: JSON.stringify({ qty: Math.max(0, Number(next || 0)) }),
             });
```

await load();

```
} catch (e: any) {
          setError(e?.message || "Не вдалося оновити кількість");
          failed.show();
      } finally {
          setBusy(false);
   }
   async function checkout() {
      if (!data || !data.items?.length) return;
      setBusy(true);
      redirecting.show();
      try {
          // 1) створюємо Order з кошика
          const order = await api<{ order id: number; total eur: string; status: string }>(
             API.orders.checkout,
             { method: "POST" }
          );
          // збережемо для екрана успіху sessionStorage.setItem("last_order_id", String(order.order_id));
          // 2) отримуємо Stripe checkout session URL
          const pay = await api<{ checkout_url: string; session_id: string }>(
             API.payments.checkout,
             { method: "POST", body: JSON.stringify({ order_id: order.order_id }) }
          );
          // 3) редірект на Stripe
          window.location.href = pay.checkout_url;
      } catch (e: any) {
          redirecting.hide();
          setError(e?.message || "Оплата наразі недоступна");
          failed.show();
      } finally {
          setBusy(false);
   const total = useMemo(() => data?.total eur ?? "0.00", [data]);
   return (
      <Page title="Cart">
          <div className="rounded-xl border p-4">
             <div className="overflow-x-auto">
                 <thead className="text-left">
                    Quote #
                       Матеріал
                       K-сть
                       Ціна/шт, €

Ціна/шт, €

Сума, €

className="py-2">

                    </thead>
                    {data?.items?.map((it) => (
                       #{it.quote_id}
                           {[it.quote.material?.name,
it.quote.material?.color].filter(Boolean).join(" - ")}
                           <div className="inline-flex items-center gap-1">
                                  <button
                                     className="px-2 py-1 rounded border text-xs"
                                     disabled={busy}
                                     onClick={() => setQty(it.id, it.qty - 1)}
                                     title="-1
                                  >-</button>
```

```
<input
                                        type="number"
                                        min={0}
                                        value={it.qty}
                                        onChange={(e) => setQty(it.id, Number(e.target.value))}
className="w-16 rounded border px-2 py-1 text-center"
                                         disabled={busy}
                                     <button
                                         className="px-2 py-1 rounded border text-xs"
                                         disabled={busy}
                                        onClick={() => setQty(it.id, it.qty + 1)}
title="+1"
                                     >+</button>
                                 </div>
                             {it.unit_price.toFixed(2)}
                             {it.subtotal.toFixed(2)}
</dr>

                                 <button
                                     className="px-2 py-1 rounded border text-xs"
                                     disabled={busy}
                                     onClick={() => removeItem(it.id)}
                                     Видалити
                                 </button>
                             ))}
                      <b>Всього</b>
                          <b>{total}</b>
                          </div>
               <div className="mt-4 flex gap-3">
                  <button
                      onClick={checkout}
                      disabled={busy || loading || !data?.items?.length}
                      className="px-4 py-2 rounded-md bg-black text-white disabled:opacity-50"
                      Перейти до оплати
                  </button>
                  <button onClick={load} disabled={busy || loading} className="px-4 py-2 rounded-</pre>
md border">
                      Оновити
                  </button>
              </div>
           </div>
           {/* індикатор редіректу */}
           <Modal open={redirecting.open} onClose={() => {}} title="Переходимо до оплати">
               <div className="text-sm text-neutral-700">Зараз відкриється Stripe Checkout...</div>
           </Modal>
           {/* помилка */}
           <Modal
              open={failed.open}
               onClose={failed.hide}
               title="Помилка"
               footer={<button onClick={failed.hide} className="px-3 py-1.5 rounded bg-black text-</pre>
white">Гаразд</button>}
               <div className="text-sm text-red-700">{error}</div>
           </Modal>
       </Page>
   );
}
```

## src\features\order\pages\CheckoutCancelPage.tsx

### src\features\order\pages\CheckoutSuccessPage.tsx

```
import Page from "@/app/layout/Page";
import { Link, useSearchParams } from "react-router-dom";
export default function CheckoutSuccessPage() {
    const [sp] = useSearchParams();
    const sessionId = sp.get("session_id") || "";
    const lastOrderId = sessionStorage.getItem("last_order id");
    return (
        ....
<Page title="Оплата пройшла успішно ">
            <div className="space-y-2">
                <div className="text-sm text-neutral-700">
                   Дякуємо! Stripe підтвердив платіж. Webhook на бекенді виставить
<code>orders.status=paid</code>.
                </div>
                <div className="text-sm text-neutral-600">Session ID: <code>{sessionId}</code></div>
                {lastOrderId && (
                    <Link className="inline-block mt-3 underline"</pre>
to={`/order?order=[]{last0rderId}`}>
                        Перейти до статусу замовлення #{lastOrderId}
                    </Link>
                <div><Link className="underline" to="/workshop">В майстерню</Link></div>
            </div>
        </Page>
    );
}
```

```
import Page from "@/app/layout/Page";
import { api } from "@/shared/api/client";
import { API } from "@/shared/api/endpoints";
import { Maily indicated, dpf/chappines ,
import Modal from "@/shared/ui/Modal";
import { useModal } from "@/shared/ui/useModal";
import { useEffect, useRef, useState } from "react";
import { Link, useParams } from "react-router-dom";
import AuthImage from "@/shared/ui/AuthImage";
type OrderDTO = {
    id: number;
     status: "pending_payment" | "paid" | "fulfilled" | string;
    total eur: string;
    created at: string;
};
type JobDT0 = {
    id: number;
    status:
            "awaiting preflight"
            "ready"
            "queued"
            "printing"
            "paused'
            "needs_attention"
            "done"
            "canceled"
           string;
    printer_id: number | null;
    progress: number;
    est time min: number;
    started_at?: string | null;
finished_at?: string | null;
    model: { id: number; preview url?: string | null }; // preview url можна ігнорити
};
// Локальний SVG-плейсхолдер (без мережевих запитів)
function PlaceholderBox({ className = "" }: { className?: string }) {
     return (
         <svg viewBox="0 0 64 64" className={className}>
              <rect x="1" y="1" width="62" height="62" rx="8" fill="#f3f4f6" stroke="#e5e7eb" />
<path d="M10 44l12-14 10 12 8-8 14 16H10z" fill="#e5e7eb" />
              <circle cx="24" cy="22" r="5" fill="#e5e7eb" />
         </sva>
    );
}
export default function OrderStatusPage() {
    const { id } = useParams();
    const orderId = Number(id || 0);
    const [order, setOrder] = useState<OrderDTO | null>(null);
    const [jobs, setJobs] = useState<JobDTO[]>([]);
    const [loading, setLoading] = useState(true);
    const [err, setErr] = useState<string | null>(null);
    // anti-flicker/anti-spam: кеш останньої відповіді та «активності»
    const snapshot = useRef<string>("");
    const activeRef = useRef<boolean>(false);
    // перегляд у повний розмір
    const viewer = useModal(false);
    const [activeModelId, setActiveModelId] = useState<number | null>(null);
    const fmtTime = (s?: string | null) => (s ? new Date(s).toLocaleTimeString() : "-");
    const load = async () => {
         try {
              setErr(null);
              const [o, j] = await Promise.all([
                  api<0rderDT0>(API.orders.get(orderId))
                  api<JobDTO[]>(API.orders.jobs(orderId)),
              1):
```

```
// оновлюємо стан лише якщо є реальні зміни
             const next = JSON.stringify({ o, j });
             if (next !== snapshot.current) {
                 setOrder(o);
                 setJobs(j.slice().sort((a, b) => a.id - b.id));
                 snapshot.current = next;
             }
             // чи ще є активні задачі
             activeRef.current = j.some((x) =>
["ready", "printing", "paused", "awaiting_preflight", "queued", "needs_attention"].includes(x.status)
        } catch (e: any) {
             setErr(e?.message || "Не вдалося завантажити замовлення");
        } finally {
             setLoading(false);
    };
    // один цикл оновлення без залежностей від isActive
    useEffect(() => {
        if (!orderId) return;
        let stopped = false;
        let timer: any;
        const loop = async () => {
             if (stopped) return;
             if (document.visibilityState === "visible") {
                 await load();
             // 4c коли є активні задачі, 10c — коли все спокійно const interval = activeRef.current ? 4000 : 10000;
             timer = setTimeout(loop, interval);
        setLoading(true);
        loop();
        return () => {
             stopped = true;
             clearTimeout(timer);
    }, [orderId]);
    if (!orderId) {
        return (
             <Page title="Замовлення">
                 <div>Heвірний ідентифікатор.</div>
             </Page>
        );
    }
if (loading) {
        return (
             <Page title={`Замовлення №[{orderId}`}>
                 <div>Завантаження…</div>
             </Page>
        );
    }
if (err) {
        return (
             <Page title={`Замовлення №[{orderId}`}>
                 <div className="text-red-700">{err}</div>
        );
    }
if (!order) {
        return (
             <Page title={`Замовлення №∏{orderId}`}>
                 <div>He знайдено.</div>
             </Page>
```

```
);
   }
   const badge =
       order.status === "paid"
? "bg-blue-100 text-blue-800"
           : order.status === "fulfilled"
              ? "bg-green-100 text-green-800"
: order.status === "pending_payment"
    ? "bg-amber-100 text-amber-800"
                  : "bg-neutral-100 text-neutral-800";
   return (
       between">
                  <div className="flex items-center gap-3">
                     <span className={`text-xs px-2 py-0.5 rounded</pre>
[{badge}`}>{order.status}</span>
                     <div className="text-lg font-medium">
                         {Number(order.total eur).toLocaleString("uk-UA")} €
                  </div>
                  <div className="text-sm text-neutral-600 mt-1">
                     Створено: {new Date(order.created at).toLocaleString()}
              </div>
              <Link to="/orders" className="text-sm underline">
                  ← до списку
              </Link>
          </div>
          <div className="rounded-lg border overflow-hidden">
              <div className="px-4 py-2 border-b font-medium bg-neutral-50">Друкарські
задачі</div>
              <thead className="bg-neutral-50">
                  th]:px-4 [&>th]:py-2 text-left">
                     Job #
                     Прев'ю
                     CTaTyc
                     Принтер
                     Nporpec
                     Oцінка, хв
                     Cтарт
                     Фініш
                  </thead>
                  {jobs.map((j) => {}
                     const previewPath = API.files.preview(j.model.id);
                     return (
                         #{j.id}

className="px-4 py-2">#

                                <button
                                    type="button'
                                    onClick={() => {
                                        setActiveModelId(j.model.id);
                                        viewer.show();
                                    className="h-14 w-14 border rounded overflow-hidden bg-white
cursor-zoom-in"
                                    title="Відкрити у повний розмір"
                                    <AuthImage
                                        path={previewPath}
                                        alt={`Model []{j.model.id}`}
                                        className="h-full w-full object-contain"
                                </button>
```

### src\features\order\pages\OrderStatusPage.tsx

```
{j.status}
                           <div className="h-2 rounded bg-neutral-800" style={{ width:</pre>
`[{j.progress ?? 0}%` }} />
                               </div>
                               <div className="text-xs text-neutral-500 mt-1">{j.progress ??
0}%</div>

{j.est_time_min ?? "-"}

{fmtTime(j.started_at)}

{fmtTime(j.finished_at)}

                        );
                 {!jobs.length && (
                    Немає задач
                        )}
                 </div>
          {/* Модалка повнорозмірного прев'ю */}
             open={viewer.open}
             onClose={viewer.hide}
             title={activeModelId ? `Модель #∐{activeModelId}` : "Прев'ю"}
             footer={<button onClick={viewer.hide} className="px-3 py-1.5 rounded bg-black text-</pre>
white">Закрити</button>}
             <div className="flex items-center justify-center">
                 {activeModelId ? (
                    <AuthImage
                        path={API.files.preview(activeModelId)}
                        alt={`Model [{activeModelId}`}
                        className="max-h-[80vh] max-w-[90vw] object-contain"
                    />
                 ) : (
                    <PlaceholderBox className="h-[60vh] w-[70vw]" />
                 )}
             </div>
          </Modal>
      </Page>
   );
}
```

```
import Page from "@/app/layout/Page";
import { api } from "@/shared/api/client";
import { API } from "@/shared/api/endpoints";
import { Arr } from @/shared/apr/enapornts ,
import ProgressBar from "@/shared/ui/ProgressBar";
import { useEffect, useState } from "react";
import { Link } from "react-router-dom";
type OrderRow = {
     id: number;
     status: string;
     total_eur: string;
     created at: string;
     jobs total: number;
     jobs_done: number;
};
type PrintJob = {
     id: number;
    status: string;
printer_id: number | null;
     progress: number;
     est_time_min: number;
     started at: string | null;
     finished_at: string | null;
};
export default function OrdersPage() {
    const [orders, setOrders] = useState<OrderRow[]>([]);
const [loading, setLoading] = useState(true);
const [expanded, setExpanded] = useState<Record<number, { loading: boolean; jobs: PrintJob[] |</pre>
null }>>({});
     const [err, setErr] = useState<string | null>(null);
     useEffect(() => {
          (async () => {
              try {
                    setLoading(true);
                    const list = await api<OrderRow[]>(API.orders.list);
                    setOrders(list);
              } catch (e: any) {
                   setErr(e?.message || "Не вдалося завантажити замовлення");
               } finally {
                    setLoading(false);
          })();
    }, []);
     const toggle = async (oid: number) => {
          const isOpen = !!expanded[oid]?.jobs; // чи вже розкрито
          // 1) якщо відкрито — просто згортаємо і ВИХОДИМО
          if (isOpen) {
               setExpanded(prev => {
    const copy = { ...prev };
                    delete copy[oid];
                                                       // прибрати ключ = згорнути
                    return copy;
              });
              return;
                                                     // ← важливо: не фетчимо
          // 2) якщо закрито — показуємо "loading" і фетчимо джоби
          setExpanded(prev => ({ ...prev, [oid]: { loading: true, jobs: null } }));
          try {
              const jobs = await api<PrintJob[]>(API.orders.jobs(oid));
              setExpanded(prev => ({ ...prev, [oid]: { loading: false, jobs } }));
          } catch (e: any) {
              setExpanded(prev => ({ ...prev, [oid]: { loading: false, jobs: [] } }));
               setErr(e?.message || "Не вдалося завантажити задачі друку");
          }
    };
          <Page title="Мої замовлення">
```

```
{err && <div className="mb-3 rounded border border-red-300 bg-red-50 text-red-700 px-3
py-2 text-sm">{err}</div>}
        {loading ? (
           <div className="text-sm text-neutral-600">Завантаження...</div>
        ) : orders.length === 0 ? (
           <div className="text-sm text-neutral-600">Замовлень ще немає. Перейди до <Link
className="underline" to="/upload">Upload</Link>.</div>
        ) : (
           .
<div className="overflow-x-auto rounded-lg border">
              <thead className="bg-neutral-50 text-neutral-600">
                 #
Статус
Сума, €
                   Створено
                   Джоби
                   </thead>
                 {orders.map(o => {
                   const ex = expanded[o.id];
                   const open = !!ex?.jobs;
                   return (
                      <Fragment key={o.id}>
                         #{o.id}
#{o.id}
                <span className="inline-flex items-center rounded-full border px-2 py-0.5</pre>
text-xs">
                  {o.status}
                </span>
                            {o.total eur}
                            {new
{o.jobs done}/{o.jobs total}
                            <button
                                 onClick={() => toggle(o.id)}
                                 className="text-sm underline inline-flex items-
center gap-1"
                                 disabled={ex?.loading}
                                 <span className={`transition ∏{open ? "rotate-90" :</pre>
""}`}>></span>
                                 {open ? "Згорнути" : ex?.loading ? "Завантаження..." :
"Показати задачі"}
                               </button>
                               <Link to={`/orders/∏{o.id}`} className="ml-3 text-sm</pre>
underline">Деталі</Link>
                            {open && (
                            \{ex?.jobs \&\& ex.jobs.length === 0 ? (
                                    <div className="text-sm text-neutral-600">Для
цього замовлення задач поки немає.</div>
                                 ) : (
                                    <thead>
                                       Job
#
                                          <th className="text-left
py-1">Статус
                                          <th className="text-left
```

#### src\features\order\pages\OrdersPage.tsx

```
py-1">Принтер
                                        <th className="text-left
py-1">Прогрес
                                        Оцінка,
xB
                                        <th className="text-left"
py-1">Старт
                                        <th className="text-left
py-1">Фініш
                                     </thead>
                                     \{ex?.jobs?.map(j => (
                                        ?? "-"}
                                          <div
className="w-56"><ProgressBar value={j.progress ?? 0} /></div>
                                          {j.est_time_min
?? "-"}
                                          {j.started at ?
new Date(j.started at).toLocaleString() : "-"}
                                          {j.finished_at
? new Date(j.finished_at).toLocaleString() : "-"}
                                     ))}
                                  )}
                        )}
                     </Fragment>
                  );
                })}
                </div>
    )}
</Page>
  );
}
import { Fragment } from "react";
```

```
import Page from "@/app/layout/Page";
import { api, API_BASE } from "@/shared/api/client";
import { API } from "@/shared/api/endpoints";
import { AFI } from "@/shared/ui/Modal";
import { useModal } from "@/shared/ui/useModal";
import { Link, useNavigate, useSearchParams } from "react-router-dom";
import { useEffect, useState } from "react";
import { useLocale } from "@/shared/i18n/LocaleContext";
/* ------ helpers ----- */
type Material = { id: number; name?: string; color?: string };
type QuoteResp = {
     id: number;
     price_eur: string;
     settings: any;
     breakdown: {
          qty: number;
          unit_price_eur: number;
total_eur: number;
          est_time_min: number;
          est_filament_g: number;
          costs: Record<string, number>;
     breakdown labels?: Record<string, string>;
};
const INFILL PRESETS = ["15% grid", "20% gyroid", "25% cubic", "30% cubic", "40% gyroid"];
/** простий placeholder-бокс (коли прев'ю немає) */
function PlaceholderBox({ className = "" }: { className?: string }) {
     return (
          <svg viewBox="0 0 64 64" className={className}>
               <rect x="1" y="1" width="62" height="62" rx="8" fill="#f3f4f6" stroke="#e5e7eb" />
<path d="M10 44l12-14 10 12 8-8 14 16H10z" fill="#e5e7eb" />
               <circle cx="24" cy="22" r="5" fill="#e5e7eb" />
          </svq>
     );
}
 * Картинка з авторизацією: тягне blob через fetch із Bearer токеном,
 * віддає тимчасовий object URL. Якщо впало— показує Placeholder.
function AuthImage({
                             path,
                            alt.
                            className = "",
     path: string | null;
     alt: string;
     className?: string;
}) {
     const [src, setSrc] = useState<string | null>(null);
     useEffect(() => {
          let canceled = false;
          let revoke: string | null = null;
          async function run() {
               if (!path) {
                    setSrc(null);
                    return;
               try {
                    const token = localStorage.getItem("token") || "";
const res = await fetch(`[{API_BASE}[{path}`, {
    headers: token ? { Authorization: `Bearer [[{token}` } : {},
                    if (!res.ok) throw new Error(String(res.status));
                    const blob = await res.blob();
                    const url = URL.createObjectURL(blob);
                    revoke = url;
```

```
if (!canceled) setSrc(url);
             } catch {
                 if (!canceled) setSrc(null);
         }
         run();
         return () => {
             canceled = true;
             if (revoke) URL.revokeObjectURL(revoke);
    }, [path]);
    if (!src) return <PlaceholderBox className={className} />;
    return <img src={src} alt={alt} className={className} loading="lazy" />;
}
/** компактна кнопка, щоб не «роздувалась» */
function Btn({
                   children,
                  className = "".
                    ..rest
              }: React.ButtonHTMLAttributes<HTMLButtonElement> & { className?: string }) {
    return (
         <button
             {...rest}
             className={
                  "inline-flex h-10 items-center justify-center gap-2 rounded-md px-4 text-sm font-
medium " +
                  className
             }
             {children}
         </button>
    );
}
/* — page — */
export default function QuotePage() {
    const nav = useNavigate();
    const [sp] = useSearchParams();
const modelId = Number(sp.get("model") || "0");
    const { locale } = useLocale();
    const [materials, setMaterials] = useState<Material[]>([]);
    const [loadingMats, setLoadingMats] = useState(true);
    const [labels, setLabels] = useState<Record<string, string>>({});
    const [tabets, setEubers] = useState({
   material_id: 0,
   layer_height: 0.2,
   infill: "20% gyroid",
         qty: 1,
    });
    const [busy, setBusy] = useState(false);
    const [quote, setQuote] = useState<QuoteResp | null>(null);
    const [error, setError] = useState<string | null>(null);
    const added = useModal(false); // «додано в кошик»
const failed = useModal(false); // помилка
    const preview = useModal(false); // прев'ю повний розмір
    // 1) матеріали
    useEffect(() => {
         (async () => {
             try {
                  setLoadingMats(true);
                  const url = API.catalog.materials(locale);
                  const mats = await api<Material[]>(url);
                  const sorted = (mats | [])
                      .slice()
                      .sort(
```

```
(a, b) =>
                           (a.name || "").localeCompare(b.name || "", locale) ||
(a.color || "").localeCompare(b.color || "", locale),
             setMaterials(sorted);
             if (sorted.length && !form.material id)
                  setForm((f) \Rightarrow (\{ ...f, material\_id: sorted[0].id \}));
         } catch (e: any) {
             setError(e?.message || "Не вдалося завантажити матеріали");
              failed.show();
         } finally {
             setLoadingMats(false);
         }
    })();
     // eslint-disable-next-line react-hooks/exhaustive-deps
}, [locale]);
const onChange = (k: keyof typeof form, v: any) =>
    setForm((s) => ({ ...s, [k]: v }));
// 2) розрахунок
const makeQuote = async () => {
    if (!modelId) {
         setError("Нема ідентифікатора моделі. Перейди з Upload або вкажи ?model=ID.");
         failed.show();
         return:
    }
    setBusy(true);
    setError(null);
    setQuote(null);
    try {
         const payload = {
             model_id: modelId,
             material id: Number(form.material id),
             layer height: Number(form.layer height),
             infill: form.infill,
             qty: Number(form.qty)
         const res = await api<QuoteResp>(
    API.quotes + `?locale=[{encodeURIComponent(locale)}`,
             { method: "POST", body: JSON.stringify(payload) },
         setQuote(res);
         setLabels(res.breakdown_labels || {});
    } catch (e: any) {
         setError(e?.message || "Помилка розрахунку ціни");
         failed.show();
    } finally {
         setBusy(false);
    }
};
// 3) додати в кошик
const addToCart = async () => {
   if (!quote?.id) return;
    setBusy(true);
    try {
         await api(API.cart.add(quote.id), {
             method: "POST"
             body: JSON.stringify({ qty: form.qty }),
         added.show();
    } catch (e: any) {
    setError(e?.message || "Не вдалося додати в кошик");
         failed.show();
    } finally {
         setBusy(false);
};
// const breakdown = useMemo(() => {
        if (!quote) return null;
        const b = quote.breakdown;
```

```
const list = Object.entries(b.costs || {});
       return { ...b, list };
// }, [quote]);
const previewPath = modelId ? `/v1/files/preview/[[{modelId}.png` : null;
return (
    <Page title="Quote">
        {!modelId && (
            <div className="mb-4 p-3 rounded border border-amber-300 bg-amber-50 text-sm">
                Немає параметра <code>?model=ID</code>.{" "}
                <Link className="underline" to="/upload">
                    Завантаж модель
                </Link>{" "}
                і повертайся.
            </div>
        )}
        {/* компактна двоколонка: форма + вузький aside 20rem */}
        <div className="mx-auto max-w-6xl grid grid-cols-1 lg:grid-cols-[1fr_20rem] gap-6">
            {/* форма */}
            <div className="grid gap-3">
                <label className="block">
                    <span className="text-sm">Maтepiaл</span>
                    <select
                        disabled={loadingMats || busy}
                        value={form.material id}
                        onChange={(e) => onChange("material id", Number(e.target.value))}
                        className="mt-1 block w-full rounded-md border px-3 py-2"
                        {[m.name, m.color].filter(Boolean).join(" - ")}
                            </option>
                        ))}
                    </select>
                </label>
                <label className="block">
                    <span className="text-sm">Висота шару (мм)</span>
                    <input
                        type="number"
                        step="0.01
                        min="0.06'
                        max="0.4"
                        value={form.layer height}
                        onChange={(e) => onChange("layer height", Number(e.target.value))}
                        className="mt-1 block w-full rounded-md border px-3 py-2"
                    />
                </label>
                <label className="block">
                    <span className="text-sm">Заповнення</span>
                    <select
                        value={form.infill}
                        onChange={(e) => onChange("infill", e.target.value)}
                        className="mt-1 block w-full rounded-md border px-3 py-2"
                        {INFILL PRESETS.map((x) => (
                            <op\overline{t}ion key={x} value={x}>
                                {x}
                            </option>
                        ))}
                    </select>
                </label>
                <label className="block">
                    <span className="text-sm">Кількість</span>
                        type="number"
                        min={1}
                        value={form.qty}
                        onChange={(e) => onChange("qty", Number(e.target.value || 1))}
```

#### src\features\quote\pages\QuotePage.tsx

```
className="mt-1 block w-full rounded-md border px-3 py-2"
                    </label>
                    <div className="flex gap-2">
                        <Btn
                            onClick={makeQuote}
                            disabled={busy || !modelId}
                            className="bg-black text-white disabled:opacity-50"
                            {busy ? "Рахуємо..." : "Розрахувати"}
                        </Btn>
                        {quote?.id && (
                            <Btn onClick={addToCart} disabled={busy} className="border">
                                Додати в кошик
                            </Btn>
                    </div>
                </div>
                {/*} aside 20rem — компактні картки з фіксованими min-height */{}
                <div className="space-y-3">
                    {/* ціна */}
                    <section className="rounded-lg border p-3 min-h-[136px]">
                        {!quote ? (
                            <div className="animate-pulse space-y-2">
                                <div className="h-5 w-32 bg-neutral-200 rounded" />
<div className="h-4 w-40 bg-neutral-200 rounded" />
                                <div className="h-3 w-full bg-neutral-200 rounded" />
                            </div>
                        ) : (
                                <div className="text-base font-medium">Ціна: {quote.price_eur}
€</div>
                                <div className="text-xs text-neutral-600">
                                    за {quote.breakdown.qty} шт · {quote.breakdown.unit price eur} €
/ шт
                                </div>
                                <div className="mt-2 text-xs">
                                    <div>Yac: {Math.round(quote.breakdown.est_time_min)} xb</div>
                                     <div>Філамент: {quote.breakdown.est filament q} г</div>
                                </div>
                                {quote.breakdown.costs && (
                                     <details className="mt-2 text-xs">
                                         <summary className="cursor-pointer select-none text-</pre>
neutral-700">
                                             Деталі собівартості
                                         </summary>
                                         {Object.entries(quote.breakdown.costs).map(([k, v]) => (
                                                 key={k}>
                                                     \{(labels[k] ?? k)\}: \{k === "margin mult" ?
`x[{v}` : (v as any)}
                                                 ))}

</details>
<//>
//s
                        )}
                    </section>
                    {/* прев'ю */}
                    <section className="rounded-lg border p-3 min-h-[220px]">
                        <div className="mb-1 text-sm font-medium">Прев'ю моделі</div>
                        <button
                            type="button"
                            onClick={preview.show}
                            className="group w-full h-[170px] rounded border bg-white overflow-
hidden flex items-center justify-center cursor-zoom-in"
                            title="Збільшити"
```

```
{quote ? (
                                  <AuthImage
                                      path={previewPath}
alt={`Model [{modelId}`}
                                      className="h-full w-full object-contain group-hover:opacity-90"
                              ) : (
                                  <div className="h-full w-full bg-neutral-100" />
                              )}
                         </button>
                         -div className="mt-1 text-[11px] text-neutral-500">Клік, щоб збільшити</div>
                     </section>
                 </div>
            </div>
             {/*} успіх додавання в кошик */{}
             <Modal
                 open={added.open}
                 onClose={added.hide}
                 title="Додано в кошик"
                 footer={
                     <>
                         <Btn onClick={added.hide} className="border">
                             Продовжити
                         </Btn>
                         <Btn onClick={() => nav("/cart")} className="bg-black text-white">
                             Перейти в кошик
                         </Btn>
                     </>
                 }
                 <div className="text-sm text-neutral-700">
                     Пропозицію додано. Можеш оформити замовлення в кошику.
                 </div>
            </Modal>
             {/* модалка прев'ю */}
             <Modal
                 open={preview.open}
                 onClose={preview.hide}
                 title="Прев'ю моделі'
                 footer={
                     <Btn onClick={preview.hide} className="bg-black text-white">
                         Закрити
                     </Btn>
                 }
            >
                 <div className="aspect-[4/3] w-full max-h-[70vh] overflow-hidden rounded border bg-</pre>
white">
                     <AuthImage
                         path={previewPath}
alt={`Model [{modelId}`}
                         className="w-full h-full object-contain"
                 </div>
            </Modal>
             {/* помилка */}
             <Modal
                 open={failed.open}
                 onClose={failed.hide}
                 title="Помилка"
                 footer={
                     <Btn onClick={failed.hide} className="bg-black text-white">
                         Гаразд
                     </Btn>
                 }
                 <div className="text-sm text-red-700">{error}</div>
            </Modal>
        </Page>
    );
```

}

```
import Page from "@/app/layout/Page";
import { api } from "@/shared/api/client";
import { API } from "@/shared/api/endpoints";
import { Arr } from "@/shared/ui/Modal";
import { useModal } from "@/shared/ui/useModal";
import ProgressBar from "@/shared/ui/ProgressBar";
import { Link } from "react-router-dom";
import { useRef, useState } from "react";
// просте визначення типу вмісту по розширенню (коли file.type порожній) function sniffContentType(file: File): string {
     if (file.type) return file.type;
     const ext = file.name.toLowerCase().split(".").pop();
     switch (ext) {
   case "stl":
                         return "model/stl";
         case "obj": return "model/obj";
case "gltf": return "model/gltf+json";
         case "glb": return "model/gltf-binary"
                         return "application/octet-stream";
         default:
     }
}
// PUT із прогресом через XHR (fetch не дає прогрес завантаження)
function putWithProgress(url: string, file: File, contentType: string, onProgress: (pct: number) =>
void) {
     return new Promise<void>((resolve, reject) => {
         const xhr = new XMLHttpRequest();
         xhr.upload.onprogress = (e) => {
    if (e.lengthComputable) {
                   const pct = (e.loaded / e.total) * 100;
                   onProgress(pct);
              }
         }:
         xhr.onload = () => {
              (xhr.status >= 200 && xhr.status < 300)
                   ? resolve()
                   : reject(new Error(`Upload failed: ∏{xhr.status} ∏{xhr.statusText}`));
         };
         xhr.onerror = () => reject(new Error("Network error during upload"));
xhr.open("PUT", url, true);
         xhr.setRequestHeader("Content-Type", contentType);
         xhr.send(file);
     });
}
export default function UploadPage() {
     // const nav = useNavigate();
     const fileInput = useRef<HTMLInputElement | null>(null);
     const [file, setFile] = useState<File | null>(null);
     const [progress, setProgress] = useState(0);
     const [busy, setBusy] = useState(false);
     const [error, setError] = useState<string | null>(null);
     // що повернемо після complete
     const [uploadId, setUploadId] = useState<number | null>(null);
     const [modelId, setModelId] = useState<number | null>(null);
     const success = useModal(false);
     const fail
                     = useModal(false);
     const onPick = (e: React.ChangeEvent<HTMLInputElement>) => {
         setError(null); setUploadId(null); setModelId(null); setProgress(0);
          const f = e.target.files?.[0] || null;
         setFile(f);
    };
     const reset = () => {
          setFile(null); setProgress(0); setUploadId(null); setModelId(null);
         if (fileInput.current) fileInput.current.value = "";
     };
     const startUpload = async () => {
  if (!file) { setError("Спочатку обери файл (.stl/.obj/.gltf/.glb)"); fail.show(); return; }
```

```
setBusy(true); setError(null);
        try {
            const contentType = sniffContentType(file);
            // 1) presign
            const presign = await api<{ url: string; key: string; bucket: string }>(API.presign, {
                 body: JSON.stringify({ content type: contentType }),
            }):
            // 2) PUT з прогресом у MinIO
            await putWithProgress(presign.url, file, contentType, (pct) => setProgress(pct));
            // 3) complete (бек сам перевірить розмір/etag і створить Model3D)
            const complete = await api<{</pre>
                 upload: { id: number; key: string; bucket: string; status: string };
model: { id: number; status: string };
            }>(API.complete, {
    method: "POST"
                 body: JSON.stringify({ key: presign.key, content type: contentType }),
             setUploadId(complete.upload?.id ?? null);
            setModelId(complete.model?.id ?? null);
            success.show();
        } catch (e: any) {
             setError(e?.message || "Помилка завантаження");
             fail.show();
        } finally {
            setBusy(false);
    };
    return (
        <Page title="Upload">
            <div className="grid gap-4 max-w-xl">
                 <label className="block">
                     <span className="text-sm">Обери 3D-файл (.stl / .obj / .gltf / .glb)</span>
                     <input
                         ref={fileInput}
                         type="file"
                         accept=".stl,.obj,.gltf,.glb,model/stl,model/obj,model/gltf-
binary, model/gltf+json"
                         onChange={onPick}
                         className="mt-1 block w-full rounded-md border px-3 py-2"
                 </label>
                 {file && (
                     <div className="text-sm text-neutral-700">
                         Файл: <b>{file.name}</b> ({(file.size/1024).toFixed(1)} KB)
                     </div>
                 )}
                 {busy && (
                     <div className="grid gap-2">
                         <ProgressBar value={progress} />
                         <div className="text-xs text-neutral-500">Завантаження:
{Math.round(progress)}%</div>
                     </div>
                 <div className="flex gap-2">
                     <button
                         onClick={startUpload}
                         disabled={!file || busy}
className="px-4 py-2 rounded-md bg-black text-white disabled:opacity-50"
                         {busy ? "Uploading..." : "Upload"}
                     </button>
                     <button
                         onClick={reset}
```

#### src\features\upload\pages\UploadPage.tsx

```
disabled={busy}
                         className="px-4 py-2 rounded-md border"
                         Скинути
                    </button>
                </div>
            </div>
            {/* ycnix */}
            <Modal
                open={success.open}
                onClose={success.hide}
                title="Модель завантажено"
                footer={
                     <>
                         <button onClick={success.hide} className="px-3 py-1.5 rounded</pre>
border">Закрити</button>
                         {modelId && (
                             <Link to={\'quote?model=\square{modelId}\'} className="px-3 py-1.5 rounded bg-
black text-white">
                                 Перейти до Quote
                             </Link>
                        )}
                    </>
                }
            >
                <div className="text-sm text-neutral-700 space-y-1">
                    <div>Upload ID: <b>{uploadId ?? "-"}</b></div>
<div>Model ID: <b>{modelId ?? "-"}</b></div>
                     <div>Статус аналізу: <i>processing → analyzed</i> (можеш перейти до Quote вже
зараз)</div>
                </div>
            </Modal>
            {/* помилка */}
            <Modal
                open={fail.open}
                onClose={fail.hide}
                title="Помилка"
                footer={<button onClick={fail.hide} className="px-3 py-1.5 rounded bg-black text-</pre>
white">Гаразд</button>}
                <div className="text-sm text-red-700">{error}</div>
                <div className="text-xs text-neutral-500 mt-2 space-y-1">
                    чения перевірки, якщо не залетіло:
                         Ти залогінений (Bearer токен є в localStorage)?
                         У бекенді CORS дозволяє <code>http://localhost:5173</code>?
                         MinIO CORS:
<code>MINIO API CORS ALLOW ORIGIN=http://localhost:5173</code> (i <code>PUT</code> y methods)?
                         <lī>Бакет існує (<code>models</code>)?
                     </div>
            </Modal>
        </Page>
    );
}
```

```
// src/features/workshop/pages/WorkshopPage.tsx
import Page from "@/app/layout/Page"
import Page from @/app/tayout/Page;
import { api } from "@/shared/api/client";
import { API } from "@/shared/api/endpoints";
import ProgressBar from "@/shared/ui/ProgressBar";
import Modal from "@/shared/ui/Modal";
import { useEffect, useMemo, useState } from "react";
/** ----- Types ----- */
type JobRow = {
    id: number;
    order_id?: number | null;
    status:
           "awaiting_preflight"
           "ready"
           "queued"
           "printing"
           "paused"
           "needs_attention"
           "done'
           "canceled"
          string;
    printer_id: number | null;
    progress: number;
    est time min: number;
    started_at?: string | null;
    finished at?: string | null;
};
type JobAction = "start" | "pause" | "resume" | "cancel";
     ----- Helpers
function toArray<T = any>(x: any): T[] {
    if (Array.isArray(x)) return x;
if (x && Array.isArray(x.items)) return x.items;
    if (x && Array.isArray(x.data)) return x.data;
     return [];
}
export default function WorkshopPage() {
    const [raw, setRaw] = useState<JobRow[]>([]);
    const [loading, setLoading] = useState(true);
    const [err, setErr] = useState<string | null>(null);
    const [busy, setBusy] = useState<Record<number, boolean>>({});
    // фільтри
    const [status, setStatus] = useState<string>("all");
    const [query, setQuery] = useState("");
    // пагінація
    const [page, setPage] = useState(1);
    const pageSize = 25;
    // ---- Preflight modal state ----
    const [preflightFor, setPreflightFor] = useState<JobRow | null>(null);
    const [preflight, setPreflight] = useState({
         bed_cleared: true,
         filament ok: true,
         nozzle ok: true,
    });
    const JOBS LIST = (API.jobs as any).list ?? API.jobs.list;
    const load = async () => {
        try {
    setErr(null);
             setLoading(true);
             const res = await api<any>(JOBS LIST);
              setRaw(toArray<JobRow>(res));
         } catch (e: any) {
             setErr(e?.message || "Не вдалося завантажити задачі");
              setRaw([]);
         } finally {
```

```
setLoading(false);
    }
};
useEffect(() => {
    load();
}, []);
// застосовуємо фільтри
const filtered = useMemo(() => {
    const q = query.trim().toLowerCase();
    return raw.filter((j) => {
        const status0k = status === "all" ? true : j.status === status;
        if (!status0k) return false;
if (!q) return true;
        const txt = [`#[{j.id}`, j.status, j.printer_id ?? "", j.order_id ?? ""]
    .join(" ")
             .toLowerCase();
        return txt.includes(q);
    }):
}, [raw, status, query]);
// сторінка
const totalPages = Math.max(1, Math.ceil(filtered.length / pageSize));
const safePage = Math.min(Math.max(1, page), totalPages);
const pageRows = useMemo(() => {
    const start = (safePage - 1) * pageSize;
    return filtered.slice(start, start + pageSize);
}, [filtered, safePage]);
{ value: "canceled", label: "canceled" },
/** ----- Actions (start/pause/resume/cancel) ----- */
async function doAction(job: JobRow, action: JobAction) {
    if (busy[job.id]) return;
    if (action === "cancel" && !confirm(`Скасувати job #□{job.id}?`)) return;
    setBusy((s) \Rightarrow ({ ...s, [job.id]: true }));
    try {
    const path =
            action === "start"
                ? API.jobs.start(job.id)
                 : action === "pause"
                     ? API.jobs.pause(job.id)
                     : action === "resume"
                         ? API.jobs.resume(job.id)
                         : API.jobs.cancel(job.id);
        await api(path, { method: "POST" });
        await load();
    } catch (e: any) {
        alert(e?.message || "Не вдалося виконати дію");
    } finally {
        setBusy((s) => ({ ...s, [job.id]: false }));
}
function openPreflight(job: JobRow) {
    setPreflight({ bed cleared: true, filament ok: true, nozzle ok: true });
    setPreflightFor(job);
```

```
async function submitPreflight() {
    const job = preflightFor;
if (!job) return;
    setBusy((s) => ({ ...s, [job.id]: true }));
    try {
         await api(API.jobs.preflight(job.id), {
             method: "POST",
headers: { "Content-Type": "application/json" },
              body: JSON.stringify(preflight),
         });
         setPreflightFor(null);
         await load();
    } catch (e: any) {
         alert(e?.message || "Не вдалося виконати preflight");
    } finally {
         setBusy((s) => ({ ...s, [job.id]: false }));
}
function renderActions(j: JobRow) {
    const disabled = !!busy[j.id];
    switch (j.status) {
   case "awaiting_preflight":
             return (
                  <button
                       disabled={disabled}
                       onClick={() => openPreflight(j)}
                       className="rounded border px-2 py-1 text-xs"
                       Preflight
                  </button>
         );
case "ready":
         case "queued":
             return (
                  <button
                       disabled={disabled}
                       onClick={() => doAction(j, "start")}
className="rounded border px-2 py-1 text-xs"
                       Start
                  </button>
         );
case "printing":
             return (
                  <div className="flex gap-1">
                       <button
                           disabled={disabled}
                           onClick={() => doAction(j, "pause")}
                           className="rounded border px-2 py-1 text-xs"
                       >
                           Pause
                       </button>
                       <button
                           disabled={disabled}
                           onClick={() => doAction(j, "cancel")}
className="rounded border px-2 py-1 text-xs"
                           Cancel
                       </button>
                  </div>
         );
case "paused":
case "needs_attention":
              return (
                  <div className="flex gap-1">
                       <button
                           disabled={disabled}
                           onClick={() => doAction(j, "resume")}
                           className="rounded border px-2 py-1 text-xs"
                           Resume
```

```
</button>
                      <button
                         disabled={disabled}
                         onClick={() => doAction(j, "cancel")}
                         className="rounded border px-2 py-1 text-xs"
                      </button>
                  </div>
          );
default:
              return <span className="text-neutral-400 text-xs">-</span>;
       }
   }
   return (
       <Page title="Workshop (admin)">
           {err && (
              <div className="mb-3 rounded border border-red-300 bg-red-50 text-red-700 px-3 py-2</pre>
text-sm">
                  {err}
              </div>
          )}
           <div className="mb-3 flex flex-wrap items-center gap-2">
              <label className="text-sm">Craryc</label>
              <select
                  value={status}
                  onChange={(e) => {
                      setStatus(e.target.value);
                      setPage(1);
                  }}
                  className="rounded border px-2 py-1"
                  {statuses.map((s) => (}
                      <option key={s.value} value={s.value}>
                         {s.label}
                      </option>
                  ))}
              </select>
              <input
                  value={query}
                  onChange={(e) => {
                      setQuery(e.target.value);
                      setPage(1);
                  placeholder="Пошук: job/order/printer/status..."
                  className="ml-2 w-80 rounded border px-3 py-1"
              <button
                  onClick={load}
                  className="ml-auto rounded bg-black px-3 py-1.5 text-white"
                  disabled={loading}
                  Оновити
              </button>
          </div>
          <div className="rounded-lg border overflow-x-auto">
              <thead className="bg-neutral-50">
                  th]:px-3 [&>th]:py-2 text-left">
                      Job #
                      Order #
                      CTaTyc
                      Принтер
                      Προгрес
                      Фініш
                      Дії
```

```
</thead>
      <thody>
      {loading ? (
         Завантаження...
            ) : pageRows.length === 0 ? (
         Нічого не знайдено.
            ) : (
         pageRows.map((j) => (
            #{j.id}

#{j.id}

{j.order_id ?? "-"}

{j.status}

               {j.printer_id ?? "-"}
               <div className="w-56">
                     <ProgressBar value={j.progress ?? 0} />
                  </div>
               {j.started at ? new Date(j.started at).toLocaleString() : "-"}
               {j.finished_at ? new Date(j.finished_at).toLocaleString() : "-"}
               {renderActions(j)}
            ))
      )}
      </div>
{/* пагінація */}
<div className="mt-3 flex items-center gap-2">
   <button
      className="rounded border px-2 py-1 disabled:opacity-50"
      onClick={() => setPage((p) => Math.max(1, p - 1))}
      disabled={safePage <= 1}</pre>
      Попередня
   </button>
   <div className="text-sm">
      Сторінка {safePage} з {totalPages} (всього {filtered.length})
   </div>
   <button
      className="rounded border px-2 py-1 disabled:opacity-50"
onClick={() => setPage((p) => Math.min(totalPages, p + 1))}
      disabled={safePage >= totalPages}
      Наступна
   </button>
</div>
<Modal
   open={!!preflightFor}
   onClose={() => setPreflightFor(null)}
   title={`Preflight для job #∏{preflightFor?.id ?? ""}`}
   footer={
      <>
         <button
            onClick={() => setPreflightFor(null)}
            className="px-3 py-1.5 rounded border"
```

```
Скасувати
                       </button>
                       <button
                           onClick={submitPreflight}
                           className="px-3 py-1.5 rounded bg-black text-white"
                           Підтвердити
                       </button>
                   </>
               }
           >
               <input
                           type="checkbox"
                           checked={preflight.bed_cleared}
                           onChange={(e) =>
                              setPreflight((s) => ({ ...s, bed cleared: e.target.checked }))
                           }
                       />
                       Робочий стіл очищено
                   </label>
                   <label className="flex items-center gap-2">
                       <input
                           type="checkbox"
                           checked={preflight.filament_ok}
                           onChange={(e) =>
                              setPreflight((s) => ({ ...s, filament ok: e.target.checked }))
                       />
                       Філамент заправлено / достатньо
                   </label>
                   <label className="flex items-center gap-2">
                       <input
                           type="checkbox"
                           checked={preflight.nozzle ok}
                           onChange={(e) =>
                              setPreflight((s) => ({ ...s, nozzle_ok: e.target.checked }))
                       Сопло чисте / готове
                   </label>
               </div>
           </Modal>
       </Page>
   );
}
```

## src\features\workshop\pages\WorkshopRoute.tsx

#### src\shared\api\client.ts

```
const BASE = import.meta.env.VITE_API_BASE ?? "http://localhost:8000";
export const API_BASE = import.meta.env.VITE_API_BASE ?? "http://localhost:8000";

export async function api<T=any>(path: string, init: RequestInit = {}): Promise<T> {
    const token = localStorage.getItem("token");
    const headers: Record<string,string> = { "Content-Type": "application/json", ...(init.headers as
any || {}) };
    if (token) headers["Authorization"] = `Bearer [{token}`;
    const res = await fetch(`[BASE][{path}`, { ...init, headers });
    const ct = res.headers.get("content-type") || "";
    const data = ct.includes("application/json") ? await res.json() : await res.text();
    if (!res.status === 401) {
        localStorage.removeItem("token");
        if (location.pathname !== "/login") location.href = "/login";
    }
    const ct = res.headers.get("content-type") || "";
    const data = ct.includes("application/json") ? await res.json() : await res.text();
    const reqId = res.headers.get("X-Request-ID") || undefined;
    const msg = (data && (data.message || data.detail)) || res.statusText;
    const e: any = new Error(msg); if (reqId) e.requestId = reqId; throw e;
    }
    return data as T;
}
```

#### src\shared\api\endpoints.ts

```
export const API = {
    login: "/v1/auth/login",
    presign: "/v1/files/presign-upload",
    complete: "/v1/files/complete",
         catalog: {
                  materials: (locale: string) =>
                           `/v1/catalog/materials?locale=[[{encodeURIComponent(locale)}`,
        },
         quotes: "/v1/quotes",
        cart: {
    me: "/v1/cart",
    add: (quoteId: number) => `/v1/cart/add/[{quoteId}`,
    remove: (itemId: number) => `/v1/cart/item/[{itemId}`,
    update: (itemId: number) => `/v1/cart/item/[{itemId}`,
        },
        orders: {
    list: "/v1/orders",
    checkout: "/v1/orders/checkout",
    get: (id: number) => `/v1/orders/[[{id}`,
        jobs: (id: number) => `/v1/orders/[[{id}/print-jobs`,
}
         payments: {
                 checkout: "/v1/payments/checkout",
         files: {
                  preview: (modelId: number) => `/v1/files/preview/[[{modelId}.png`,
         jobs: {
                  list: "/v1/print-jobs",
                 list: "/vl/print-jobs",
preflight: (id: number) => `/vl/print-jobs/[{id}/preflight`,
start: (id: number) => `/vl/print-jobs/[{id}/start`,
pause: (id: number) => `/vl/print-jobs/[{id}/pause`,
resume: (id: number) => `/vl/print-jobs/[[{id}/resume`,
cancel: (id: number) => `/vl/print-jobs/[[{id}/cancel`,
        },
} as const;
```

# src\shared\api\types.ts

```
export type LoginReq = { email: string; password: string };
export type LoginRes = { access_token: string };
```

# src\shared\auth\AdminOnly.tsx

```
import { Navigate } from "react-router-dom";
import { isAdmin } from "./role";

export default function AdminOnly({ children }: { children: React.ReactNode }) {
   if (!isAdmin()) return <Navigate to="/" replace />;
   return <>{children}</>;
}
```

## src\shared\auth\role.ts

```
function b64urlToUtf8(b64: string) {
    try {
        const s = atob(b64.replace(/-/g, "+").replace(/_/g, "/"));
        return decodeURIComponent(escape(s));
    } catch { return "{}"; }
}

export function getUserRole(): string | null {
    const t = localStorage.getItem("token");
    if (!t) return null;
    const parts = t.split(".");
    if (parts.length < 2) return null;
    try {
        const payload = JSON.parse(b64urlToUtf8(parts[1]));
        return payload.role ?? null;
    } catch { return null; }
}

export const isAdmin = () => getUserRole() === "admin";
```

## src\shared\hooks\useAuth.ts

```
import { useState } from "react";
export function useAuthState(){
    const [token,setToken] = useState<string|null>(localStorage.getItem("token"));
    const login = (t:string)=>{ localStorage.setItem("token",t); setToken(t); };
    const logout = ()=>{ localStorage.removeItem("token"); setToken(null); };
    return { token, login, logout };
}
```

#### src\shared\i18n\LocaleContext.tsx

```
import { createContext, useContext, useMemo, useState } from "react";

const SUPPORTED = ["en", "uk", "pt"] as const;
type Locale = typeof SUPPORTED[number];

function detect(): Locale {
    const saved = localStorage.getItem("locale") as Locale | null;
    if (saved && (SUPPORTED as readonly string[]).includes(saved)) return saved as Locale;
    const nav = (navigator.language || "en").slice(0, 2).toLowerCase();
    return (SUPPORTED as readonly string[]).includes(nav) ? (nav as Locale) : "en";
}

type Ctx = { locale: Locale; setLocale: (l: Locale) => void };
const LocaleContext = createContext<Ctx>({ locale: "en", setLocale: () => {} });
export function LocaleProvider({ children }: { children: React.ReactNode }) {
    const [locale, set] = useState<Locale>(detect());
    const setLocale = (l: Locale) => { localStorage.setItem("locale", l); set(l); };
    const value = useMemo(() => ({ locale, setLocale }), [locale]);
    return <LocaleContext.Provider value={value}>{children}/LocaleContext.Provider>;

export const useLocale = () => useContext(LocaleContext);
export const LocaleS = SUPPORTED;
```

```
import { useEffect, useState } from "react";
import { API BASE } from "@/shared/api/client";
 * Картинка з авторизацією: тягне blob через fetch із Bearer токеном,
 * віддає тимчасовий object URL. Якщо впало — показує простий placeholder.
 * Опціонально можна відкласти завантаження через prop `load`.
export default function AuthImage({
                                          path,
                                                          // бековий шлях, напр. /v1/files/preview/11.png
                                          alt,
                                          className = ""
                                          load = true, // якщо false — не фетчимо, поки не стане true
                                     }: {
    path: string | null;
    alt: string;
    className?: string;
    load?: boolean;
}) {
    const [src, setSrc] = useState<string | null>(null);
    useEffect(() => {
         let canceled = false;
         let revoke: string | null = null;
         async function run() {
   if (!load || !path) {
                 setSrc(null);
                  return:
             try {
                 const token = localStorage.getItem("token") || "";
const res = await fetch(`[{API_BASE}][{path}`, {
                      headers: token ? { Authorization: `Bearer □{token}` } : {},
                  });
                  if (!res.ok) throw new Error(`HTTP [{res.status}`);
                  const blob = await res.blob();
                  const url = URL.createObjectURL(blob);
                  revoke = url;
                 if (!canceled) setSrc(url);
             } catch {
                 if (!canceled) setSrc(null);
             }
         }
         run();
         return () => {
             canceled = true;
             if (revoke) URL.revokeObjectURL(revoke);
    }, [path, load]);
    if (!src) {
         // легкий SVG-плейсхолдер, щоб не стукатись мережею
         return (
             <svg viewBox="0 0 64 64" className={className}>
                 <rect x="1" y="1" width="62" height="62" rx="8" fill="#f3f4f6" stroke="#e5e7eb" />
<path d="M10 44l12-14 10 12 8-8 14 16H10z" fill="#e5e7eb" />
                 <circle cx="24" cy="22" r="5" fill="#e5e7eb" />
             </sva>
         );
    return <img src={src} alt={alt} className={className} loading="lazy" />;
}
```

src\shared\ui\Button.tsx

## src\shared\ui\ConfirmDialog.tsx

```
import Modal from "./Modal";
type ConfirmDialogProps = {
    open: boolean;
title?: string;
message?: string;
    confirmText?: string;
    cancelText?: string;
    onConfirm: () => void;
onCancel: () => void;
};
export default function ConfirmDialog({
                                                 open,
                                                 title = "Підтвердження",
message = "Ви впевнені?",
confirmText = "Підтвердити",
cancelText = "Скасувати",
                                                 onConfirm,
                                                 onCancel,
                                            }: ConfirmDialogProps) {
    return (
         <Modal
              open={open}
              onClose={onCancel}
              title={title}
              footer={
                  <>
                       <button onClick={onCancel} className="px-3 py-1.5 rounded border border-</pre>
neutral-300">
                            {cancelText}
                       </button>
                       <button onClick={onConfirm} className="px-3 py-1.5 rounded bg-black text-white">
                            {confirmText}
                       </button>
             }
              {message}
         </Modal>
    );
}
```

src\shared\ui\Input.tsx

## src\shared\ui\LanguageSwitcher.tsx

#### src\shared\ui\Modal.tsx

```
import React, { useEffect } from "react";
type ModalProps = {
            open: boolean;
            onClose: () => void;
            title?: string;
            children: React.ReactNode;
            footer?: React.ReactNode;
           widthClass?: string;
            closeOnBackdrop?: boolean;
};
export default function Modal({
                                                                                                 open, onClose, title, children, footer,
widthClass = "max-w-md", closeOnBackdrop = true,
                                                                                      }: ModalProps) {
            useEffect(() => {
                       if (!open) return;
const onKey = (e: KeyboardEvent) => e.key === "Escape" && onClose();
document.addEventListener("keydown", onKey);
                       document.body.style.overflow = "hidden";
                       return () => {
                                  document.removeEventListener("keydown", onKey);
document.body.style.overflow = "";
           }, [open, onClose]);
           if (!open) return null;
            return (
                       <div className="fixed inset-0 z-[1000]">
                                   <div className="absolute inset-0 bg-black/40 backdrop-blur-[1px]" onClick={() =>
<div role="dialog" aria-modal="true"</pre>
                                                            className={\(\bar{v}\) full [\(\partial{v}\) full [\(\partial{v}\)] full (\(\partial{v}\)) 
neutral-200`}>
                                                          {title && <div className="px-5 py-4 border-b"><h3 className="text-lq font-
semibold">{title}</h3></div>}
                                                          <div className="px-5 py-4">{children}</div>
{footer && <div className="px-5 py-3 border-t flex justify-end gap-2 bg-</pre>
neutral-50 rounded-b-2xl">{footer}</div>}
                                              </div>
                                   </div>
                       </div>
            );
}
```

## src\shared\ui\ProgressBar.tsx

src\shared\ui\Select.tsx

src\shared\ui\Toast.tsx

# src\shared\ui\useModal.ts

```
import { useCallback, useState } from "react";
export function useModal(initial = false) {
   const [open, setOpen] = useState<boolean>(initial);
   const show = useCallback(() => setOpen(true), []);
   const hide = useCallback(() => setOpen(false), []);
   const toggle = useCallback(() => setOpen(v => !v), []);
   return { open, show, hide, toggle };
}
```

# styles\index.css

@import "tailwindcss";