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UX Design Diagrams & Mockups

This folder contains SVG vector diagrams and high-fidelity mockups that visualize the user experience, workflows, and system architecture for the **Nye Hædda Barneskole Project Management Simulation**.

All diagrams are created in **Norwegian** to match the application language and are fully scalable vector graphics (SVG) for use in documentation, presentations, and development reference.

Contents

- **Workflow Diagrams (01-07):** Process flows, decision trees, and system visualizations
 - **High-Fidelity Mockups (mockup-01 to mockup-07):** Pixel-perfect UI designs for all pages and modals
-

Diagram Index

01. User Journey Flow

File: 01-user-journey-flow.svg

Description: Complete user journey from login to successful plan submission, showing all major steps:

- Login authentication
- Dashboard overview
- WBS task selection
- Supplier selection
- AI negotiation loop
- Plan validation (success/failure paths)

Use Cases:

- Onboarding documentation for new users
 - Developer reference for implementing the core game loop
 - Stakeholder presentations
-

02. Dashboard Layout

File: 02-dashboard-layout.svg

Description: Detailed wireframe of the main dashboard view (desktop 1024px+):

- Header with user menu and help button
- Project constraints panel (budget progress bar, deadline status)
- Quick stats (WBS completion, negotiation count)
- Two-column layout: WBS list (left, 2/3 width) + Action buttons (right, 1/3 width)
- Individual WBS item cards showing status (completed/pending)

Use Cases:

- Frontend implementation reference
 - UI/UX testing baseline
 - Responsive design starting point
-

03. Chat Negotiation Flow

File: 03-chat-negotiation-flow.svg

Description: Example of a complete negotiation session with an AI supplier:

- Initial high-price quote from AI (120 MNOK, 90 days)
- User arguments based on budget constraints
- AI counter-offers with justification (110 MNOK)
- Final user push (105 MNOK)
- AI acceptance and data commit

Shows realistic Norwegian dialogue and negotiation dynamics.

Use Cases:

- AI prompt engineering reference
 - User training materials
 - Chat UI implementation guide
-

04. Validation Decision Tree

File: 04-validation-decision-tree.svg

Description: Decision tree showing the plan validation logic:

1. Check: All WBS items have data?
2. Check: Total cost \leq 700 MNOK?
3. Check: Projected end date \leq 15. mai 2026?
4. Success: Show completion modal
5. Failure: Show specific error modal with recommendations

Includes error handling paths and retry loops.

Use Cases:

- Backend validation logic implementation
 - Testing edge cases (over budget, delayed project)
 - Error modal design reference
-

05. WBS Dependency Visualization

File: 05-wbs-dependency-visualization.svg

Description: Complete WBS structure showing all 15 tasks organized by phase:

- 1.1-1.2: Prosjektering (Architect, RIB)
- 1.3: Grunnarbeider (Groundwork, Foundation)
- 1.4: Råbygg (Shell, Roof/Walls)
- 1.5: Tekniske fag (Electrical, HVAC, Ventilation)
- 1.6: Innvendig (Interior walls, Flooring)
- 1.7-1.8: Ferdigstillelse (Painting, Inspection)

Critical path highlighted in red (longest dependency chain affecting deadline).

Use Cases:

- Understanding project structure
 - Critical path algorithm implementation
 - Dependency validation logic
 - Gantt chart feature (post-MVP)
-

06. Mobile Responsive Comparison

File: [06-mobile-responsive-comparison.svg](#)

Description: Side-by-side comparison of layouts across breakpoints:

- **Desktop (1024px+):** 2-column layout, full features
- **Tablet Landscape (768px):** 1-column with sticky actions
- **Tablet Portrait (640px):** Compact vertical layout
- **Mobile (<640px):** Not supported in MVP (marked with warnings)

Includes a feature comparison table showing what works on each device.

Use Cases:

- Responsive design implementation
 - Device testing checklist
 - Stakeholder explanation of mobile strategy
-

07. AI Negotiation Strategy

File: [07-ai-negotiation-strategy.svg](#)

Description: Technical deep-dive into how AI suppliers negotiate:

- **System Prompt:** Persona definition (professional Norwegian contractor)
- **Context:** Project constraints and requirements
- **Guardrails:** Hardcoded min/max cost/duration limits (prevents AI hallucination)
- **5-step negotiation flow:** Initial offer → User argues → Counteroffer → User pushes → Final acceptance
- **Difficulty levels:** Easy (0.3 resistance), Medium (0.6 resistance), Hard (0.9 resistance)

Use Cases:

- Backend AI integration (PydanticAI + Gemini 2.5 Flash)
 - Prompt engineering
 - Balancing game difficulty
 - Testing AI agent behavior
-

High-Fidelity Mockup Index

Mockup 01. Login Page

File: [mockup-01-login-page.svg](#)

Description: Complete login page design with:

- Clean, centered card layout with gradient background
- Email and password input fields with proper styling
- "Remember me" checkbox and "Forgot password" link
- Primary login button and registration link
- Info panel with welcome message
- UiA branding and LOG565 course attribution

Viewport: 1440x900px (standard desktop)

Use Cases:

- Frontend implementation reference for authentication
- Visual design approval
- Supabase Auth integration guide

Mockup 02. Registration Page

File: [mockup-02-registration-page.svg](#)

Description: Registration form with right-side feature panel:

- Full name, email (UiA), password, and confirm password fields
- Real-time password strength indicator (weak/medium/strong)
- Terms and conditions checkbox
- Right-side benefits panel with 4 feature highlights:
 - Save progress
 - Track performance
 - Compete with others (coming soon)
 - 100% private (GDPR-compliant)
- Time estimate badge: 45-60 minutes

- Green color scheme to differentiate from login

Viewport: 1440x900px

Use Cases:

- Registration flow implementation
 - Form validation patterns
 - Marketing/feature communication
-

Mockup 03. Dashboard (Full Detail)

File: `mockup-03-dashboard-full.svg`

Description: Complete main dashboard with realistic data:

- **Header:** Navigation tabs (Dashboard, Leverandører), help button, user menu
- **Constraints Panel:**
 - Budget progress bar (450/700 MNOK = 64%)
 - Deadline tracker (15. mai 2026)
 - Expected completion (10. april 2026 ✓ with 35-day margin)
- **Quick Stats Bar:** 8/15 WBS completed, 32 negotiations, auto-save status
- **WBS List (left 2/3):**
 - Filter tabs (All/Completed/Remaining)
 - 5 WBS items shown: 2 completed (green), 1 in-progress (yellow), 2 pending (gray)
 - Critical path indicators (red ●)
 - Supplier names and cost/duration data
- **Action Panel (right 1/3):**
 - "Send Inn Plan" primary button (disabled until 15/15 complete)
 - Export to JSON button
 - Tips panel
 - Progress statistics mini-chart
 - Reset simulation button (red)

Viewport: 1920x1080px (full HD)

Use Cases:

- Primary frontend implementation reference
 - Component layout and hierarchy
 - Real data visualization examples
-

Mockup 04. Chat Interface (Full Detail)

File: `mockup-04-chat-interface-full.svg`

Description: Complete chat negotiation interface:

- **Left Sidebar (400px):**
 - Supplier list with 15 items
 - Search functionality
 - Filter tabs (All/Online/Active)
 - Supplier cards showing: avatar, name, status (online/completed), WBS assignment
 - Active chat highlighted with blue border
 - Unread message badges
- **Chat Window (main):**
 - Chat header: Supplier name, status, WBS context, export/close buttons
 - Welcome message with negotiation tips
 - 4 messages shown: User → AI → User → AI (typing)
 - Real negotiation example: Råbygg 200 MNOK → 190 MNOK
 - Message timestamps
 - Input area with text field and two buttons: "Send" and "Aksepter tilbud" (green)
- **Floating Help Tooltip:** Negotiation strategy tips

Viewport: 1920x1080px

Use Cases:

- Chat UI implementation
 - Message layout and styling
 - Real-time typing indicators
 - Supplier list design
-

Mockup 05. Success Modal

File: `mockup-05-success-modal.svg`

Description: Celebration modal shown when plan is approved:

- **Success Icon:** Large green checkmark with confetti decoration
- **Title:** "Gratulerer! 🎉" with subtitle
- **Summary Box (green):**
 - Total cost: 695 MNOK (5 MNOK under budget ✓)
 - End date: 10. april 2026 (35 days before deadline ✓)
 - WBS tasks: 15/15 completed ✓
- **Achievement Badges:**
 - 💰 Budsjettmester (Under budget)
 - 🕒 Tidsmester (Before deadline)
 - 🤝 Forhandler (32 negotiations)
 - ✨ Førstegangs (First plan)
- **Action Buttons:**
 - Export plan (JSON) - green
 - View detailed report - blue
 - Start new simulation - text link

Viewport: 1920x1080px (modal overlay)

Use Cases:

- Success feedback design
- Export functionality
- Achievement system (post-MVP)

Mockup 06. Error/Validation Modal

File: `mockup-06-error-validation-modal.svg`

Description: Error modal shown when plan exceeds constraints:

- **Error Icon:** Large red exclamation mark
- **Error Summary (red):**
 - Budget overage: 715 MNOK / 700 MNOK

- Required reduction: -15 MNOK (highlighted)
- **Problematic WBS Items (yellow box):**
 - Top 3 most expensive items listed:
 1. Råbygg: 200 MNOK (highest!)
 2. Grunnarbeid: 105 MNOK
 3. Elektrisk: 65 MNOK
- **Recommendations (blue box):**
 - 5 actionable tips for reducing budget
 - "Go back to Råbygg and negotiate from 200 → 185"
 - "Optimize timeline to reduce costs"
 - "Contact project owner for budget increase"
 - etc.
- **Action Buttons:**
 - "Back and negotiate again" (blue)
 - "Reset entire plan" (red, destructive)
 - Help link at bottom

Viewport: 1920x1080px (modal overlay)

Use Cases:

- Error handling and user guidance
- Validation feedback design
- Helpful error messages (not just "Error!")

Mockup 07. Help/Onboarding Modal

File: `mockup-07-help-onboarding-modal.svg`

Description: Multi-tab help system with step-by-step guide:

- **Header:** "Velkommen til simulatoren! 🙌" with subtitle
- **6 Tabs:** Kom i gang (active), Forhandling, WBS & Budsjett, Tips & Triks, FAQ, Ressurser
- **Step-by-Step Guide (6 steps):**
 1. Review project constraints (blue)
 2. Select WBS task (green)
 3. Negotiate with AI supplier (yellow)

4. Accept offer when satisfied (purple)
 5. Repeat for all 15 tasks (blue)
 6. Submit plan for validation (green)
- **Info Box:** Estimated time 45-60 minutes, auto-save enabled
 - **Bottom Actions:**
 - "Start simulering nå!" (blue, primary)
 - "Les mer dokumentasjon" (gray, secondary)
 - Video tutorial button
 - **Progress Dots:** 1/6 pages (for multi-page onboarding)

Viewport: 1920x1080px (modal overlay)

Use Cases:

- User onboarding flow
- In-app help system
- Tutorial content structure

How to Use These Diagrams & Mockups

In Documentation

Reference diagrams in Markdown files:

```
! [User Journey Flow](ux/01-user-journey-flow.svg)
```

In Presentations

SVG files scale perfectly for slides. Import into PowerPoint, Google Slides, or Figma.

For Development

Use as reference during implementation:

- **Frontend devs:** Refer to 02 (Dashboard), 03 (Chat), 06 (Responsive)

- **Backend devs:** Refer to 04 (Validation), 05 (Dependencies), 07 (AI Logic)
- **UX designers:** All diagrams provide visual specifications

For Testing

Create test cases based on flows:

- User journey (01): End-to-end test scenarios
 - Validation tree (04): Edge case testing (over budget, delayed)
 - Negotiation (03, 07): AI response quality testing
-

Design Notes

Visual Style

- **Color Palette:** Matches UX Design Specification
 - Blue (#2563EB): Primary actions, headers
 - Green (#16A34A): Success states, completed items
 - Yellow (#F59E0B): Warnings, decisions, in-progress
 - Red (#DC2626): Errors, critical path, not supported
 - Gray (#F3F4F6): Neutral panels, pending items

Typography

- **Sans-serif fonts** for readability
- **Monospace** for code snippets (in diagram 07)
- **Norwegian language** throughout (except technical code)

Accessibility

- High contrast text/background combinations
 - Color is supplemented with icons (✓, ○, ✗) for colorblind users
 - Clear labels and legends on all diagrams
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Updating Diagrams

All diagrams are **pure SVG** (no external dependencies). To edit:

1. Open **.svg** file in any text editor
2. Modify text content, colors, or layout
3. Preview in browser or VS Code SVG preview extension
4. Commit changes to repository

Recommended tools:

- **Text editor:** VS Code with SVG preview extension
 - **Visual editor:** Figma, Adobe Illustrator, Inkscape (free)
 - **Online editor:** SVGator, Method Draw
-

Related Documentation

- **UX Design Specification:** **../ux-design-specification.md** (full component details)
 - **PRD:** **../PRD.md** (functional requirements)
 - **Epics:** **../epics.md** (user stories and implementation plan)
 - **Architecture:** **../architecture.md** (technical stack)
 - **Proposal:** **../proposal.md** (project overview and context)
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Changelog

2025-12-08: Complete UX design package created

- **7 Workflow Diagrams:**
 - 01: User Journey Flow
 - 02: Dashboard Layout (wireframe)
 - 03: Chat Negotiation Flow
 - 04: Validation Decision Tree
 - 05: WBS Dependency Visualization
 - 06: Mobile Responsive Comparison

- 07: AI Negotiation Strategy
 - **7 High-Fidelity Mockups:**
 - mockup-01: Login Page (1440x900)
 - mockup-02: Registration Page (1440x900)
 - mockup-03: Dashboard Full Detail (1920x1080)
 - mockup-04: Chat Interface Full Detail (1920x1080)
 - mockup-05: Success Modal (overlay)
 - mockup-06: Error/Validation Modal (overlay)
 - mockup-07: Help/Onboarding Modal (overlay)
 - **Total:** 14 SVG files + 1 README
 - **Total size:** ~150 KB (highly optimized)
-

For questions or diagram requests, contact the UX team or create an issue in the repository.