

AI Executive Summary - Template Switching Implementation

Overview

Successfully implemented a three-template system for the AI Executive Summary component with seamless tab switching and user edit protection.

Features Implemented

1. Three Template Types

Concise Template

- **Format:** 3-5 bullet points per section
- **Style:** Brief, tactical, quick to scan
- **Use Case:** Quick overview for busy executives
- **Implementation:** Extracts key sentences and formats as bullet points with “•”

Executive Template (DEFAULT)

- **Format:** 2-4 sentence paragraphs per section
- **Style:** Polished, balanced, professional
- **Use Case:** VP/C-Suite readers
- **Implementation:** Maintains original API output format

Detailed Template

- **Format:** 3-5 paragraphs per section
- **Style:** Formal, thorough, comprehensive
- **Use Case:** Internal team planning, technical audiences
- **Implementation:** Expands content with contextual analysis, assumptions, and recommendations

2. Tab Switching UI

Location: Positioned between the header and summary sections

Design:

- Horizontal tab bar with three buttons: Concise, Executive, Detailed
- Active tab: Indigo text with bottom border (`text-indigo-600 border-b-2 border-indigo-600`)
- Inactive tabs: Gray text with hover effect (`text-gray-500 hover:text-gray-700`)
- Smooth transitions for professional appearance

3. State Management

New State Variables:

```
const [activeTemplate, setActiveTemplate] = useState<TemplateType>('executive');
const [hasUserEdits, setHasUserEdits] = useState(false);
```

State Tracking:

- `activeTemplate` : Tracks which template is currently active
- `hasUserEdits` : Tracks whether user has made inline edits
- Updates on template switch, generation, and regeneration

4. Template Formatting Functions

`formatConcise(summary: AISummary): AISummary`

- Splits text into sentences
- Extracts 3-4 key points per section
- Formats as bullet points with “•” prefix

`formatExecutive(summary: AISummary): AISummary`

- Returns original summary unchanged
- Maintains existing paragraph format

`formatDetailed(summary: AISummary): AISummary`

- Expands single paragraphs into multiple paragraphs
- Adds contextual introductions and conclusions
- Includes analysis and stakeholder recommendations

`formatSummary(summary: AISummary, template: TemplateType): AISummary`

- Main formatting dispatcher
- Routes to appropriate formatter based on template type

5. Template Switching Logic

Function: `handleTemplateSwitch(newTemplate: TemplateType)`**Behavior:**

1. Checks if template is already active (no-op if same)
2. If user has edits, shows confirmation dialog:
 - Message: “Switching templates will reset your edited text. Continue?”
 - User can cancel to preserve edits
 - User can confirm to switch and reset
3. Updates active template
4. Reformats summary with new template
5. Resets `hasUserEdits` flag

6. Edit Tracking

Modified Function: `handleEdit()`**Enhancement:**

- Sets `hasUserEdits = true` when user edits any section
- Triggers warning dialog on template switch
- Resets to `false` after generation/regeneration or template switch

7. Integration with Existing Features

Compatible with:

- Inline editing (contentEditable divs)
- Generate/Regenerate buttons

- Share functionality
- All existing styling and hover states

No Changes Required:

- API routes remain unchanged
- Database schema unchanged
- Share modal works with all templates
- RFP detail page integration maintained

File Modified

Single File: /home/ubuntu/fyndr/nextjs_space/app/dashboard/rfps/[id]/ai-summary.tsx

Lines Added: ~120 lines of new functionality

User Experience

Initial State

- Component loads with “Generate Executive Summary” button
- No template tabs visible until summary is generated

After Generation

- Summary displays in **Executive** template (default)
- Tab bar appears with three options
- User can click any tab to switch formats

Template Switching

- Click on desired template tab
- If no edits: Instant switch with reformatting
- If edits exist: Confirmation dialog appears
- Cancel: Keeps current template and edits
- OK: Switches template and resets edits

Inline Editing

- Works seamlessly with all templates
- User can edit any section by clicking
- Edits are tracked automatically
- Switching templates prompts confirmation

Regeneration

- Clicking “Regenerate” fetches new summary
- Applies current active template format
- Resets edit tracking

Technical Details

Type Definitions

```
type TemplateType = 'concise' | 'executive' | 'detailed';
```

State Flow

1. Summary generated → Apply active template format → Display
2. User edits → Set hasUserEdits flag
3. Template switch → Check edits → Confirm → Reformat → Reset flag
4. Regenerate → Fetch new → Apply template → Reset flag

Performance

- Template formatting happens client-side (instant)
- No additional API calls for template switching
- Minimal re-renders with proper state management

Testing Checklist

- [x] Build compiles successfully
- [x] Dev server starts without errors
- [] Test concise template displays bullet points
- [] Test executive template matches original format
- [] Test detailed template expands content
- [] Test tab switching between all templates
- [] Test warning dialog appears when user has edits
- [] Test cancel preserves edits
- [] Test confirm resets edits
- [] Test inline editing works with all templates
- [] Test regenerate applies current template
- [] Test share modal works with all templates

Next Steps

1. **Manual Testing:** Open RFP detail page, generate summary, test all templates
2. **Visual Verification:** Ensure tab styling matches design requirements
3. **Edge Case Testing:** Test with very long/short content
4. **User Acceptance:** Get feedback on template formats

Notes

- Default template is “Executive” as specified
- Warning confirmation uses native `window.confirm()`
- All templates maintain the same 5-section structure
- Formatting is deterministic and repeatable
- No database changes required

- Backward compatible with existing functionality