# **Concept Map Page UI Structure**

## **Status Bar**

* System status indicators
* Time
* Battery level
* Network connectivity

## **Navigation Header**

* Back arrow button
* Page title "Concept Map"
* View options menu icon
* Help/Tutorial icon

## **View Control Bar**

* 2D/3D view toggle
* Layout style selector dropdown
  + Constellation view
  + Hierarchical view
  + Network view
  + Cluster view
* Filter concepts button
* Search in map icon

## **Interactive Canvas Area**

* Full-screen concept visualization space
* Concept nodes
  + Node shape/icon
  + Concept name label
  + Mastery level indicator
  + Connection count badge
* Connection lines between concepts
  + Relationship type indicator
  + Connection strength indicator
* Cluster boundaries (if in cluster view)
* Current focus indicator

## **Floating Control Panel (Left Side)**

* Zoom in button
* Zoom out button
* Zoom slider
* Fit to screen button
* Center on user location button

## **Floating Legend Panel (Right Side)**

* "Legend" collapsible header
* Node types explanation
  + Core concepts
  + User concepts
  + Mastered concepts
  + Suggested concepts
* Connection types explanation
  + Strong relationship
  + Weak relationship
  + User-created connection
  + Prerequisite connection
* Mastery levels color key

## **Selected Concept Info Panel (Bottom Sheet)**

* Drag handle
* Concept name
* Category badge
* Brief description
* Key relationships section
  + Connected to count
  + Prerequisites list
  + Leads to list
* Quick actions row
  + Explore concept button
  + Ask about this button
  + Add to journey button
  + Create connection button
* Related insights preview

## **Search Overlay (When Active)**

* Search input field
* Cancel search button
* Search results list
  + Concept name
  + Path from current location
  + Jump to concept button

## **Filter Overlay (When Active)**

* Close filter button
* Filter options
  + Show only mastered
  + Show only in journey
  + Show by category checkboxes
  + Show by difficulty slider
  + Show user contributions toggle
  + Connection density slider
* Apply filters button
* Reset filters button

## **Map Statistics Bar (Collapsible)**

* Total concepts shown
* Total connections
* Your explored percentage
* Community contributions count

## **Navigation Breadcrumbs (When Deep in Map)**

* Current path display
* Clickable breadcrumb items
* Back to overview button

## **Gesture Instructions Overlay (First Time)**

* Pinch to zoom instruction
* Drag to pan instruction
* Tap to select instruction
* Long press for options instruction
* Got it button

## **Mini-Map (Corner Overlay)**

* Miniature map overview
* Current viewport indicator
* Drag to navigate

## **Sharing Options (When Activated)**

* Share map view button
* Save current view button
* Export as image button