



Augmented Reality for Enterprise Alliance

ASoN

The AREA Statements of Need Management Tool

Michael Rygol

Goals

Provide a tool to capture use cases, requirements & more for the AREA ecosystem

Encourage the creation of contextualized and tagged content

Make this context valued by and accessible to the AREA community

Encourage a collaborative environment

Provide a managed, rich source of valuable content for AR solution users and suppliers

Key Concepts

Database is online and accessible to the AREA community

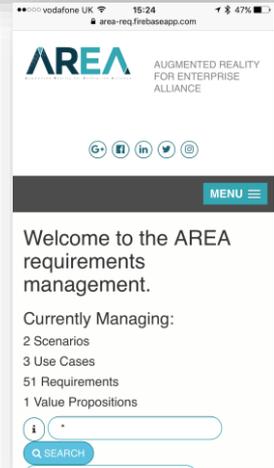
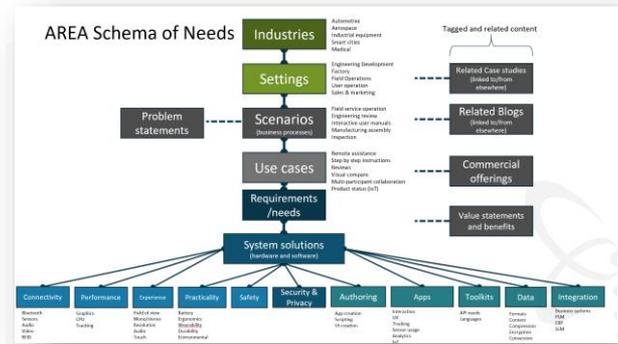
Adheres to the AREA Schema of Needs

Two views of the system:

- The **registered user**
 - Submit content for approval
 - Search
 - Comment
 - Report
- The **Admin user** (aka Requirements Committee members)
 - User privileges plus...
 - Configuration
 - Users, Settings, Industries, Tags, Personas, Templates, Admin users
 - Content approval

Rich text editing of content and simple linking to other content

Content subscription with automated notifications model



Mobile friendly

Key Capabilities

User's View of the System

Consistently structured content is encouraged:

- Business scenarios
- Use cases
- Requirements / needs
- Value propositions
- Personas
- *Submitted content is subject to a review process*

Rich text editing (include links, images, etc.)

- Commenting to encourage collaboration
- Streamlined referencing to existing
- Subscribe and notify model
- Use pre-defined templates

Bulk loading of content

- *From CSV file*

Comprehensive search capabilities

Reporting

User self registration

Admin's View of the System

Maintain list of admins and users

Define list of tags and tag groups

Define set of Industries

- *e.g. Automotive, Aerospace*

Define usage Settings

- *e.g. Factory, Field, etc.*

Define Personas

- *e.g. Field Service Technician*

Define Templates for all content types

Define notification email lists

Review and Approve content submissions

User Capabilities

User's initial screen

Have an account? Login!

E-Mail

Password

LOGIN **RESET**

Register Now? **REGISTER**

Register

Display Name

Email Address

Password

Confirm Password

REGISTER **CLOSE**



Database location

<https://areareqs.firebaseio.com>

Contact Michael@thearea.org for admin privileges (needs a gmail account)

User's home screen

Login for admin users

ADMIN LOGIN

Content types

HOME | SCENARIOS | USE CASES | REQUIREMENTS | VALUE PROPOSITIONS | MANAGEMENT |

Welcome, Michael Rygol LOGOUT

Welcome to the AREA requirements management.

Currently Managing:

2 Scenarios

3 Use Cases

51 Requirements

1 Value Propositions



Search...



SEARCH

Load Search

Enter search name

SAVE SEARCH

+ Advanced Search

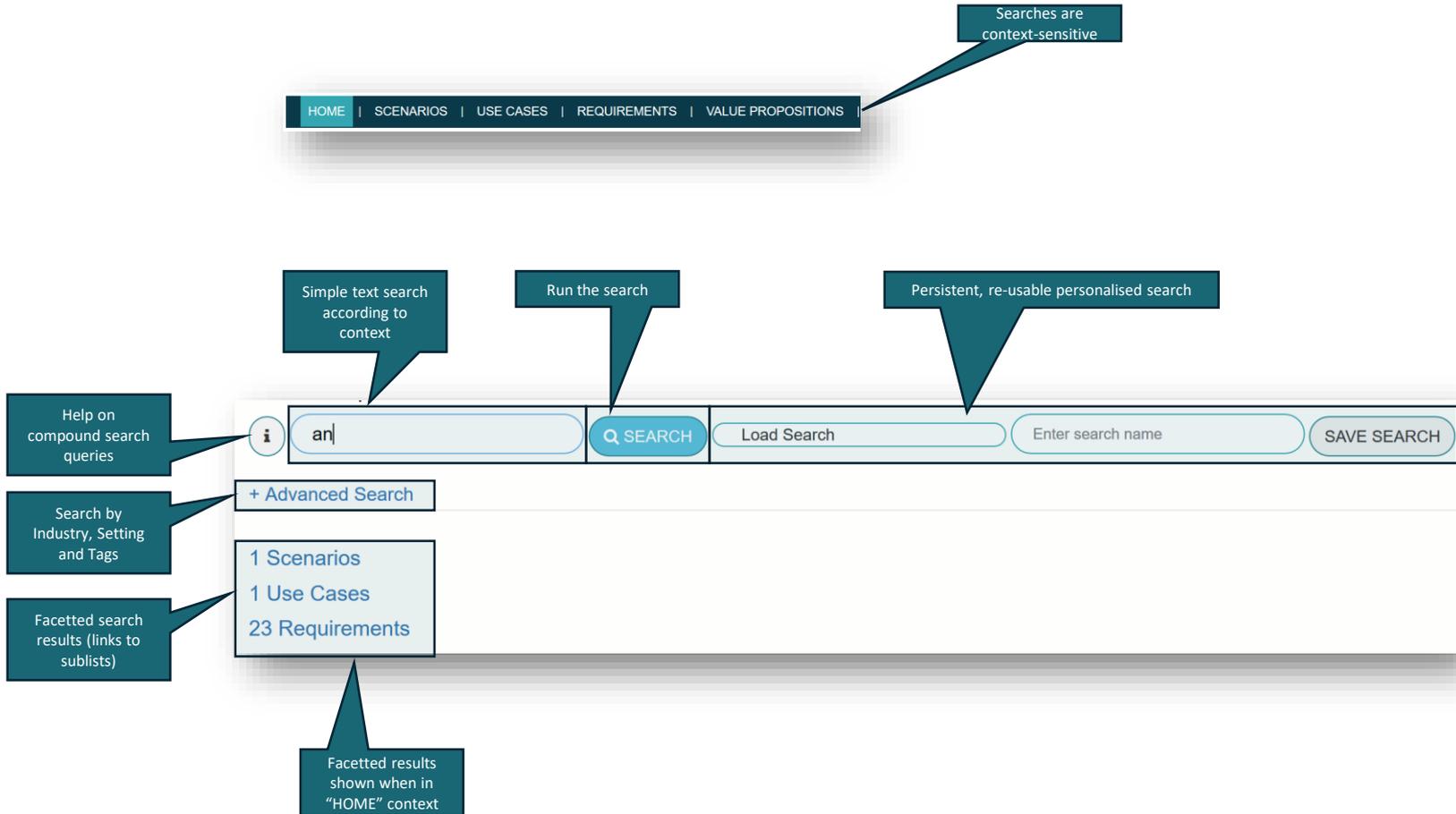
Overview of approved content in database

Search tools



Searching

Search UI overview



Search expressions

Build compound search strings (in addition to use of tags) e.g.

- *
- Find everything!
- AP* [and] [-]APP*
 - Find items with words beginning with AP but not with APP
- Hololens [OR] ODG
 - Find items that include the “Hololens” or “ODG”



Click for more info
on search queries

Search Tips ✕

- * to list all items
- use [or] operator like: term 1 [or] term 2
- use [and] operator like: term 1 [and] term 2
- use [-] operator to exclude search term like: [-]term
- combine [-] and [and] operators like: term 1 [and] [-]term2
- combine [-] and [or] operators like: term 1 [or] [-]term2
- don't combine [and] and [or] operators.

CLOSE

These can be saved for later re-use

Advanced Search UI overview (1)

Search by user (name/email address) - Callout pointing to the 'Me' checkbox and the 'User name or email' input field.

Logical operator within this group - Callout pointing to the 'AND' and 'OR' radio buttons.

Collapsible group display - Callout pointing to the '- Related Industries' header.

Tags - Callout pointing to the '+ Tags' section.

Admin-defined tag groups - Callout pointing to the 'User operations' section.

The main interface shows sections for:

- Users**: Me, User name or email
- Related Industries**: AND OR
 - Aerospace & defense
 - Life sciences
 - Footwear and apparel
 - Automotive
 - Consumer goods & high tech
 - Process industries
 - Industrial equipment
 - Smart cities
 - Other
 - Shipbuilding
 - Toys and games
 - Updated Test Industry
- Settings**: AND OR
 - Engineering development**: Prototype development, Design, Test
 - Sales and marketing**: Prospect presentations, Marketing promotions
 - Factory**: Manufacturing processes, Factory operations
 - Field operations**: Field service and repair, Maintenance, Diagnostics
 - User operations**: Interactive user instructions, Consumer diagnostics, Virtual operation and interaction
- + Tags**: AND OR

Previously saved searches - Callout pointing to the dropdown list.

Define name of saved search - Callout pointing to the 'Enter search name' input field.

The interface shows a search bar with the query 'AP* [and] [-]APP*' and a 'SEARCH' button. Below it, a dropdown menu is open, listing:

- Load Search
- Load Search
- AeroAutoEngineering
- ProcessOrSmartCities

 To the right of the dropdown is an 'Enter search name' input field and a 'SAVE SEARCH' button.

- Saved searches:**
- Capture all tags
 - Include search string
 - Individual to user

Advanced Search UI overview (2)

- Tags AND OR

Connectivity <ul style="list-style-type: none"><input type="checkbox"/> Bluetooth<input type="checkbox"/> Sensors<input type="checkbox"/> Audio<input type="checkbox"/> Video<input type="checkbox"/> RFID	Performance <ul style="list-style-type: none"><input type="checkbox"/> CPU<input type="checkbox"/> Graphics<input type="checkbox"/> Visual tracking	Experience <ul style="list-style-type: none"><input type="checkbox"/> Field of view<input type="checkbox"/> Mono/stereo<input type="checkbox"/> Resolution<input type="checkbox"/> Audio<input type="checkbox"/> Touch	Practicality <ul style="list-style-type: none"><input type="checkbox"/> Battery<input type="checkbox"/> Ergonomics<input type="checkbox"/> Wearability<input type="checkbox"/> Durability<input type="checkbox"/> Environmental
Authoring <ul style="list-style-type: none"><input type="checkbox"/> App creation<input type="checkbox"/> Scripting<input type="checkbox"/> UI creation	Apps <ul style="list-style-type: none"><input type="checkbox"/> Interaction<input type="checkbox"/> UX<input type="checkbox"/> Tracking<input type="checkbox"/> Sensor usage<input type="checkbox"/> Analytics<input type="checkbox"/> IoT	Toolkits <ul style="list-style-type: none"><input type="checkbox"/> API needs<input type="checkbox"/> Languages	Data <ul style="list-style-type: none"><input type="checkbox"/> Formats<input type="checkbox"/> IoT<input type="checkbox"/> Compression<input type="checkbox"/> 3D<input type="checkbox"/> Encryption<input type="checkbox"/> Conversion
Integration <ul style="list-style-type: none"><input type="checkbox"/> Business systems<input type="checkbox"/> IoT<input type="checkbox"/> PLM<input type="checkbox"/> ERP<input type="checkbox"/> SLM	Device <ul style="list-style-type: none"><input type="checkbox"/> Phone<input type="checkbox"/> Tablet<input type="checkbox"/> Eyewear<input type="checkbox"/> Other		

Admin-defined tag groups

Example search – within REQUIREMENTS

HOME | SCENARIOS | USE CASES | **REQUIREMENTS** | VALUE PROPOSITIONS

MANAGE REQUIREMENTS

SUBMIT REQUIREMENT

Select to search in this context

Simple text field search

Display Q SEARCH Load Search Enter search name SAVE SEARCH

+ Advanced Search

MANAGE SELECTED REQUIREMENTS

Search Results (51 items)

Select	Title	Description	Action
<input type="checkbox"/>	API links to other databases	Needs access to live data. ...	<input type="button" value="COPY LINK"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
<input type="checkbox"/>	User interface for non-software literate users	Ned to separate creation from usage ...	<input type="button" value="COPY LINK"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
<input type="checkbox"/>	Output to branded applications	Shall output to an application that the user will define the ...	<input type="button" value="COPY LINK"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
<input type="checkbox"/>	Displaying standard content	"Display PDF ...	<input type="button" value="COPY LINK"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>

Manage Selected Requirements

- Related Industries

Aerospace & defense Automotive Industrial equipment Shipbuilding Life sciences Consumer goods & high tech

Smart cities Toys and games Footwear and apparel Process industries Other Updated Text Industry

+ Settings

+ Tags

Simultaneous editing of tags for multiple items

Multi-selection to edit Settings, Tags, etc.

Title of requirement = link to content item

Get the link to this requirement

Edit this requirement



Viewing

Viewing a requirement

The screenshot shows a web interface for viewing a requirement. The main content area displays the requirement title, description, examples, tags, settings, industries, and a comments section. Callouts point to specific elements:

- Summary title:** Points to the requirement title "API links to other databases".
- Item detail:** Points to the list of examples, including "Retrieval of meta-data", "Stock count", and "Material parameters".
- Tags (admin-definable):** Points to the "Tags" section, which includes "Connectivity" and sub-tags like "Bluetooth", "Sensors", "Audio", "Video", and "RFID".
- Applicable Settings and Industries:** Points to the "Settings" and "Industries" sections. Settings include "Engineering development", "Factory", and "Field operations". Industries include "Aerospace & defense", "Automotive", "Industrial equipment", "Shipbuilding", "Life sciences", "Consumer goods & high tech", "Smart cities", "Toys and games", "Footwear and apparel", "Process industries", and "Other".
- Commenting:** Points to the "Comments" section, which has a text input field and a "POST" button.
- Who created this item and when:** Points to the user profile "Michael F. Rygol" and the timestamp "05/07/2018 10:35 AM".
- Other callouts:** "Edit this item", "Subscribe to edits or comments on this item", and "Share a link to this item (via email)" point to the "EDIT", "SUBSCRIBE", and "SHARE" buttons respectively.

Viewing a use case or scenario

Cabin crew workflow [EDIT](#) [SUBSCRIBE](#) [SHARE](#)

Cabin Crew Workflow

AR-assisted cabin crew workflows use any technology for creation, detection, recognition and rendering. Display options that permit professionals to use both hands are highly preferred. The user interface can be speech recognition, gesture recognition, eye-gaze recognition or [touchscreen](#).

Integration of AR-assisted cabin crew workflows with traveler record management systems in some scenarios and systems is desirable.



Tags

Apps [Interaction](#) [UX](#) [Tracking](#) [Sensor usage](#) [Analytics](#) [IoT](#)
 Device [Tablet](#) [Eyewear](#)

Settings

User operations [Interactive user instructions](#)

Industries

[Aerospace & defense](#) [Shipbuilding](#)

Linked Requirements

[User interface for non-software literate users](#)

"Shall support the ability for the user to lock the 3D AR content (not allow the worker to modify location
 Visual Tracking method
 "For smart devices with touch screen

"For smart devices with touch screen

the worker shall be allowed to use "pinch" gesture for zooming"

[X CLOSE](#)

Link to requirement

Popup to view requirement in content

Auto-generated list of referenced requirements



Notifications

Email notifications occur on content item **creation** (e.g. scenarios, use cases) to:

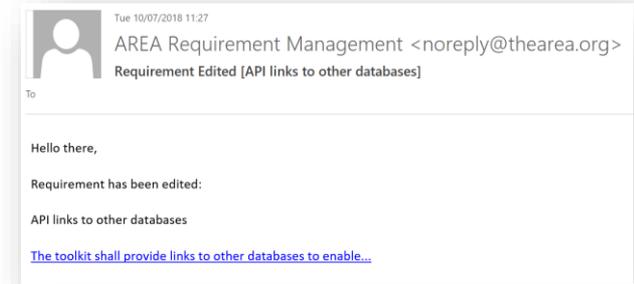
- Admin accounts
- Selected users (list maintained by an admin)

Item **edits** send notifications to:

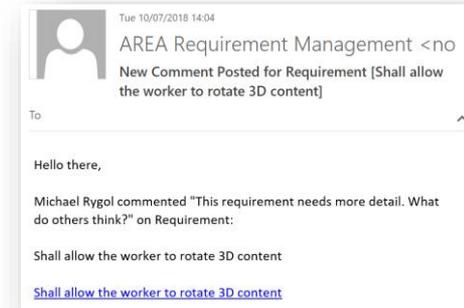
- Admin accounts
- Selected users (list maintained by an admin)
- The content creator
- Item subscribers

Comment creation sends notifications to:

- Admin accounts
- The content creator
- Item subscribers
- Previous commenters



Edit notification



Comment notification



Commenting

Commenting

Comment thread

Comments

Michael F. Rygol 10/07/2018 11:53 AM
This is a first comment on this requirement.

Michael F. Rygol 10/07/2018 11:53 AM
This is a second comment on this requirement.

Add your comment

POST

Automated email notification

Tue 10/07/2018 14:04

AREA Requirement Management <no
New Comment Posted for Requirement [Shall allow
the worker to rotate 3D content]

To

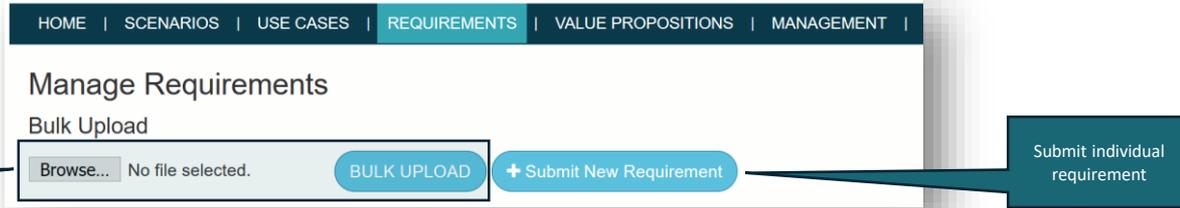
Hello there,

Michael Rygol commented "This requirement needs more detail. What
do others think?" on Requirement:
Shall allow the worker to rotate 3D content
[Shall allow the worker to rotate 3D content](#)

Includes recent
comment text.



Submitting Content



Bulk upload supported for all item types:

- Scenarios, Use cases, Requirements, Value propositions
- CSV file format:
 - [title] , [description] \n
- Excel is a good way to prepare existing lists to save to CSV

All item submissions and edits are sent for approval

Submitting an item

The screenshot shows a web form titled "Submit Scenario" with a navigation bar at the top containing "HOME | SCENARIOS | USE CASES | REQUIREMENTS | VALUE PROPOSITIONS | MANAGEMENT |" and a user greeting "Welcome, Michael Rygol" with a "LOGOUT" button.

The form fields and callouts are as follows:

- (1) Enter title:** Points to the "Scenario Title" input field containing "scenario Title".
- (2) Choose template (if required):** Points to the "Choose Template" dropdown menu showing "Select Template".
- (3) Enter description:** Points to the main text area. A callout box on the right titled "Rich formatting tools" points to the rich text editor toolbar, which includes icons for bold, italic, underline, strikethrough, link, unlink, list, indent, outdent, link, unlink, table, and text color. Another callout box on the right titled "Formatted item template (optional)" points to the "Scenario summary" section.
- (4) Select relevant Industries (optional):** Points to the "+ Related Industries" button.
- (5) Select relevant Settings (optional):** Points to the "+ Settings" button.
- (6) Select relevant Tags (optional):** Points to the "+ Tags" button.
- (7) Click SAVE:** Points to the "SAVE" button at the bottom left of the form.

The form sections include:

- Scenario Title:** Input field with "scenario Title".
- Choose Template:** Dropdown menu with "Select Template".
- scenario:** Rich text editor with a toolbar and a note: "This is the preferred scenario template."
- Scenario summary:** Section with the instruction: "Please provide a summary of this scenario (<100 words)".
- Problem statement:** Section with the instruction: "Please provide a summary of the problem statement".
- Scenario description:** Section with the instruction: "Please provide comprehensive description of the end to end business process. Please ensure to reference existing use cases and/or requirements wh actors in this scenario."
- + Related Industries**
- + Settings**
- + Tags**
- SAVE** and **CANCEL** buttons.

All item submissions and edits are sent for approval (except comments)

Linking to other content (e.g. requirements within a use case)

HOME | SCENARIOS | USE CASES | REQUIREMENTS | VALUE PROPOSITIONS | MANAGEMENT | Welcome, Michael Rygol | LOGOUT

Submit Scenario

Scenario Title
scenario Title

Choose Template
Select Template

scenario

Rich text editor toolbar: Bold, Italic, Underline, Text color, Background color, Bulleted list, Numbered list, Indent, Outdent, Undo, Redo, Link, Unlink, Table, Decrease indent, Increase indent, Text color, Background color.

First the user will perform the action. This **relies on system APIs**

- Link Scenario
- Link Use Case
- Link Requirement
- Link Value Proposition

Requirement

AP

- API links to other databases
- "Shall support the ability for the administrator to assign a SME to a specific notation from 3rd party applications
- Output to branded applications
- "Shall output an application that can be used by Android
- "Shall output an application that can be used by a user selected smart device (phones, tablets, etc.)
- Snapshots and video recording
- "Shall support the ability for the SME to be notified when they are being "called" or "work"

+ Related Industries

+ Settings

+ Tags

SAVE CANCEL

(1) Enter link text to be shown (optional)

(2) Right Mouse Button menu and select item type

(3) Start typing

(4) Select from auto-populated list that match the text typed and hit return. Hyperlink is embedded within the text.



Reporting

Reporting Search Results to PDF & CSV

The screenshot shows a web application interface with a dark blue header containing navigation links: HOME, SCENARIOS, USE CASES, REQUIREMENTS (highlighted), VALUE PROPOSITIONS, and MANAGEMENT. A user greeting 'Welcome, Michael Rygol' and a LOGOUT button are on the right. Below the header, there are buttons for 'MANAGE SCENARIOS' and 'SUBMIT SCENARIO'. A 'Bulk Upload' section includes a 'Browse...' button, 'No file selected.', a 'BULK UPLOAD' button, and a '+ Submit New Requirement' button. A search bar with a 'SEARCH' button and a 'Load Search' button is present. Below the search bar, there are checkboxes for 'Comments', 'Tags', 'Settings', 'Industries', and 'Links'. A table of search results is displayed, with columns for 'All', 'Title', 'Description', and 'Action'. The table contains four rows of results, each with a checkbox, a title, a description, and a set of action buttons: 'COPY LINK', 'EDIT', and 'DELETE'.

All	Title	Description	Action
<input type="checkbox"/>	API links to other databases	The toolkit shall provide links to other databases to enable ...	COPY LINK EDIT DELETE
<input type="checkbox"/>	User interface for non-software literate users	Ned to separate creation from usage ...	COPY LINK EDIT DELETE
<input type="checkbox"/>	Output to branded applications	Shall output to an application that the yser will define the ...	COPY LINK EDIT DELETE
<input type="checkbox"/>	Displaying standard content	Display PDF ...	COPY LINK EDIT DELETE

Export selected items from search results to a PDF (via a browser)

Export selected items to a CSV file (import into Excel, etc.)

Embeds links to items within the report

Additional optional info for report

Save search results to PDF & CSV reports

PDF report (can also save as HTML)

Use browser's "Print to PDF driver"

Link to item in database

A	B	C
URL	Title	Content
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619Kpms5P0w75W	API links to other databases	The toolkit shall provide links to other databases to enable the
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619Q0G3VAVegysR	User interface for non-software literate users	User interface for non-software literate users
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d6191F8m8S20fE	Output to branded applications	Shall output to an application that the user will define the
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619VlnFlnkud	Displaying standard content	Displaying standard content
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619XbAnqHr13PLGU	Displaying standard content	Displaying standard content
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d6192Pzv1jR6GfH	Auto-generation of ultra-light models from engineering	Auto-generation of ultra-light models from engineering
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619a-R8G3_sJMyW	Device agnostic deployments	Device agnostic deployments
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619b46Weg7DS_L	"Shall output an application that can be used by Andri	"Shall output an application that can be used by Andri
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619b46Weg7DS_L	Shall not require a custom OS on the device.	Shall not require a custom OS on the device.
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619cP7N5dmUULG2	"Shall output an application that can be used by a use	"Shall output an application that can be used by a use
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619g4N2CteQzGM	Visual Tracking method	Visual Tracking method
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619g4N2CteQzGM	"Shall not require the use of a visual tracking tag	"Shall not require the use of a visual tracking tag
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619Nh4y-Sb5C8d1p	Shall not require use of a specific type or style of visu	Shall not require use of a specific type or style of visu
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619Nh4y-Sb5C8d1p	Zoom	Zoom
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619b-0Uo9CZA	Shall allow the worker to zoom into and out of 3D con	Shall allow the worker to zoom into and out of 3D con
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619M14eF4UHW	"For smart devices with touch screen	"For smart devices with touch screen
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619M14eF4UHW	"For wearable HMDs	"For wearable HMDs
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619f2e6VrXbu1	Geometry rotation	Geometry rotation
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619f2e6VrXbu1	Shall allow the worker to rotate 3D content	Shall allow the worker to rotate 3D content
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619f2e6VrXbu1	"For smart devices with touch screen	"For smart devices with touch screen
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619mboKkg1RACC	"For wearable HMDs	"For wearable HMDs
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619p9vau_ztXf	"Shall support the ability for the user to lock the 3D A	"Shall support the ability for the user to lock the 3D A
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619p9vau_ztXf	Snapshots and video recording	Snapshots and video recording
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619m26adIKMMF	Remote SME	Remote SME
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619p22j2ioGh43	"Shall support the ability for the workers to "phone a	"Shall support the ability for the workers to "phone a
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619p22j2ioGh43	Shall support the ability for the workers and SME to a-sh	Shall support the ability for the workers and SME to a-sh
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619p22j2ioGh43	"Shall provide SME with an annotation toolbar/drawr	"Shall provide SME with an annotation toolbar/drawr
https://area-req.firebaseio.com/view-item.html?type=requirements&id=L6d619p22j2ioGh43	Shall support the ability for the administrator to assig	Shall support the ability for the administrator to assig

CSV report

Notes:

- Uses browser ability to write to a PDF driver.
- You'll need to enable the popup from the tool

Admin Capabilities

Accessible to Admin Users only

Admin home screen

The screenshot shows the AREA Admin home screen. At the top left is the AREA logo with the tagline 'Augmented Reality for Enterprise Alliance'. To the right is the text 'AUGMENTED REALITY FOR ENTERPRISE ALLIANCE' and social media icons for Google+, Facebook, LinkedIn, Twitter, and Instagram. A 'USER LOGIN' button is in the top right. A navigation bar below contains links for HOME, SCENARIOS, USE CASES, REQUIREMENTS, VALUE PROPOSITIONS, and MANAGEMENT. The user is logged in as 'Michael Rygol' and can click 'LOGOUT'.

The main heading reads 'Welcome to the AREA requirements management.' Below this is a 'Currently Managing:' section with a list: 19 Scenarios, 10 Use Cases, 125 Requirements, and 12 Value Propositions. A callout points to this list, stating 'Overview of approved content in database'.

Below the list is a search bar with a search icon, a 'SEARCH' button, a 'Load Search' button, an input field for 'Enter search name', and a 'SAVE SEARCH' button. A '+ Advanced Search' link is also present. A callout points to the search bar, stating 'Time period (defaults to one month ago to 'today')'.

The 'Activity Report' section shows a date range from '06/08/2018' to '04/02/2019' with a 'FILTER' button. It is divided into two columns: 'Items Added' and 'Items Approved'.

Items Added	Items Approved
19 Scenarios	10 Scenarios
7 Use Cases	0 Use Cases
72 Requirements	0 Requirements
12 Value Propositions	0 Value Propositions

Callouts point to these counts: 'Submitted content counts' points to the 'Items Added' column, and 'Approval counts' points to the 'Items Approved' column.

At the bottom of the activity report, there are links for 'Updated Scenarios', 'Updated Use Cases', 'Updated Requirements', and 'Updated Value Propositions'. A callout points to these links, stating 'Links to lists of updated content items'.

Overview of approved content in database

Currently Managing:
 19 Scenarios
 10 Use Cases
 125 Requirements
 12 Value Propositions

Search... SEARCH Load Search Enter search name SAVE SEARCH
 + Advanced Search

Time period (defaults to one month ago to 'today')

Submitted content counts

Items Added
 19 Scenarios
 7 Use Cases
 72 Requirements
 12 Value Propositions

Items Approved
 10 Scenarios
 0 Use Cases
 0 Requirements
 0 Value Propositions

Approval counts

Links to lists of updated content items

AREA **Flagging content for review**



AUGMENTED REALITY FOR
ENTERPRISE ALLIANCE



USER LOGIN

HOME | SCENARIOS | **USE CASES** | REQUIREMENTS | VALUE PROPOSITIONS | MANAGEMENT | Welcome

AR for Complex Assembly - Overview Use Case [EDIT](#) [✓ FLAG FOR REVIEW](#) [SUBSCRIBE](#)

SHARE

Overview of use case

Sequence of steps (instructions) appear on operator's display in context with components in the work space, leading to the successful (first time) assembly with documentation other than that provided in AR view. When the operator believes the assembly is finished, the AR-assisted system confirms task completion.

Problem statement

Complex assembly involve more (and more unique) steps than can be remembered without failure. Also, some assemblies are unique (customized). Without AR mentally transform what appears on a support other than the actual objects that are being assembled (e.g., screen, paper), requiring memory and subject to inte

Current Process (optional)

User reads/reviews step. While holding the described step in memory, the user views the components and performs the step. Returns gaze to the instructions to ve

Place single item in
'unapproved' state



AUGMENTED REALITY FOR
ENTERPRISE ALLIANCE



USER LOGIN

HOME | SCENARIOS | USE CASES | **REQUIREMENTS** | VALUE PROPOSITIONS | MANAGEMENT | Welcome, Michael Rygol LOGOUT

Manage Requirements

Bulk Upload

Browse... No file selected.

BULK UPLOAD

Submit New Requirement



Search...

Q SEARCH

Load Search

Enter search name

SAVE SEARCH

Advanced Search

MANAGE SELECTED REQUIREMENTS

FLAG FOR REVIEW

EXPORT AS PDF

EXPORT AS CSV

Comments

Tags

Settings

Industries

Links

Search Results (74 items)

All	Title	Description	Action
<input checked="" type="checkbox"/>	Battery life	* Under typical use ...	COPY LINK EDIT DELETE
<input checked="" type="checkbox"/>	The period of time to swap the device batteries shall take less than 5 minutes	The period of time to swap the device batteries shall take ...	COPY LINK EDIT DELETE
<input checked="" type="checkbox"/>	The device batteries must be swappable while wearing gloves	The device batteries must be swappable while wearing gloves ...	COPY LINK EDIT DELETE
<input checked="" type="checkbox"/>	The device batteries must be swappable while working in industrial environment.	The device batteries must be swappable while in the working ...	COPY LINK EDIT DELETE
<input checked="" type="checkbox"/>	* The device shall be wireless. (It should not be a processing pack) ...	or processing pack) ...	COPY LINK EDIT DELETE

Place multiple
items from search
results in
'unapproved' state

Content flagged for review will return to the list of items to be approved by the committee

Pending Items on the Admin's Home Screen

Committee actions

Grouped according to Item Type

Pending for Approval

Pending Scenarios

Title	Description	Action
Product Design	Produc	<input type="button" value="✓ APPROVE"/> <input type="button" value="✎ EDIT"/> <input type="button" value="✗ REJECT"/>
Flight Path Visualization	Flight	<input type="button" value="✓ APPROVE"/> <input type="button" value="✎ EDIT"/> <input type="button" value="✗ REJECT"/>
Cabin Crew Workflow	Cabin	<input type="button" value="✓ APPROVE"/> <input type="button" value="✎ EDIT"/> <input type="button" value="✗ REJECT"/>

Pending Use Cases

Title	Description	Action
Emergency Response	Emergency ResponseAR-assisted emergency response supports p	<input type="button" value="✓ APPROVE"/> <input type="button" value="✎ EDIT"/> <input type="button" value="✗ REJECT"/>
Placement of equipment in bar cellar as part of system of record	Often, during the layout of cellar equipment for a bar, hote	<input type="button" value="✓ APPROVE"/> <input type="button" value="✎ EDIT"/> <input type="button" value="✗ REJECT"/>
AR for Training – Overview Use Case	Overview of use caseThe AR solution provides trainees with a	<input type="button" value="✓ APPROVE"/> <input type="button" value="✎ EDIT"/> <input type="button" value="✗ REJECT"/>

Pending Requirement

Title	Description	Action
Ability to place 3D models in physical context	The system shall provide the ability to place a selected 3D	<input type="button" value="✓ APPROVE"/> <input type="button" value="✎ EDIT"/> <input type="button" value="✗ REJECT"/>
Ability to capture a view of a 3D model within a physical scene	The system shall provide the ability to capture an image of	<input type="button" value="✓ APPROVE"/> <input type="button" value="✎ EDIT"/> <input type="button" value="✗ REJECT"/>

Backlog of items to approve

Pending Value Propositions

Title	Description	Action
Reduce knowledge transfer costs from an ageing and retiring workforce	The use of AR will help to reduce the costs of transferring	<input type="button" value="✓ APPROVE"/> <input type="button" value="✎ EDIT"/> <input type="button" value="✗ REJECT"/>
Improvements to traceability and auditability	The use of AR shall improve the organisation's ability to en	<input type="button" value="✓ APPROVE"/> <input type="button" value="✎ EDIT"/> <input type="button" value="✗ REJECT"/>



Thank you