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## **Solution Specification Document for Financial Markets Regulations & Rules Repository Portal**



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**iQx Consult Limited**  
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Document Information/Approvals

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## **1. Introduction**

The Financial Markets Regulations and Rules Repository portal is aimed at providing a unique value to Nigeria’s financial market, FMDQ’s stakeholders, and the general public through the provision of a central digital database of Rules & Regulations, Guidelines, Market Circulars, Market Bulletins, Market Notices, and other similar documents relating to Capital Markets operations in Nigeria.

## **2. Scope**

The main objective of this implementation is to provide a central digital database for Rules and Regulations, Guidelines, Market Circulars, Market Bulletins, Market Notices and other similar documents relating to Capital Market operations.

- A secured web enabled platform for users to access Rules and Regulations, Guidelines, Market Circulars, Market Bulletins, Market Notices, and related documents
- Content management system for the upload and indexing of documents and artefacts

**Note:** The scope for the first phase of this implementation will include provision of a secure web platform, and content management system with a workflow logic for the upload of documents as stated above. FMDQ QPay will be leveraged for the payment component of this implementation to enable end-users make payment for single download of documents. However, Bundle pricing and subscription module will be reviewed and analysed in a separate iteration when the product owner provides the pricing structure required for these use-cases.

## **3. Assumptions and Constraints**

The following assumptions and constraints are documented to guide the design and implementation of the proposed platform.

### **3.1 Assumptions**

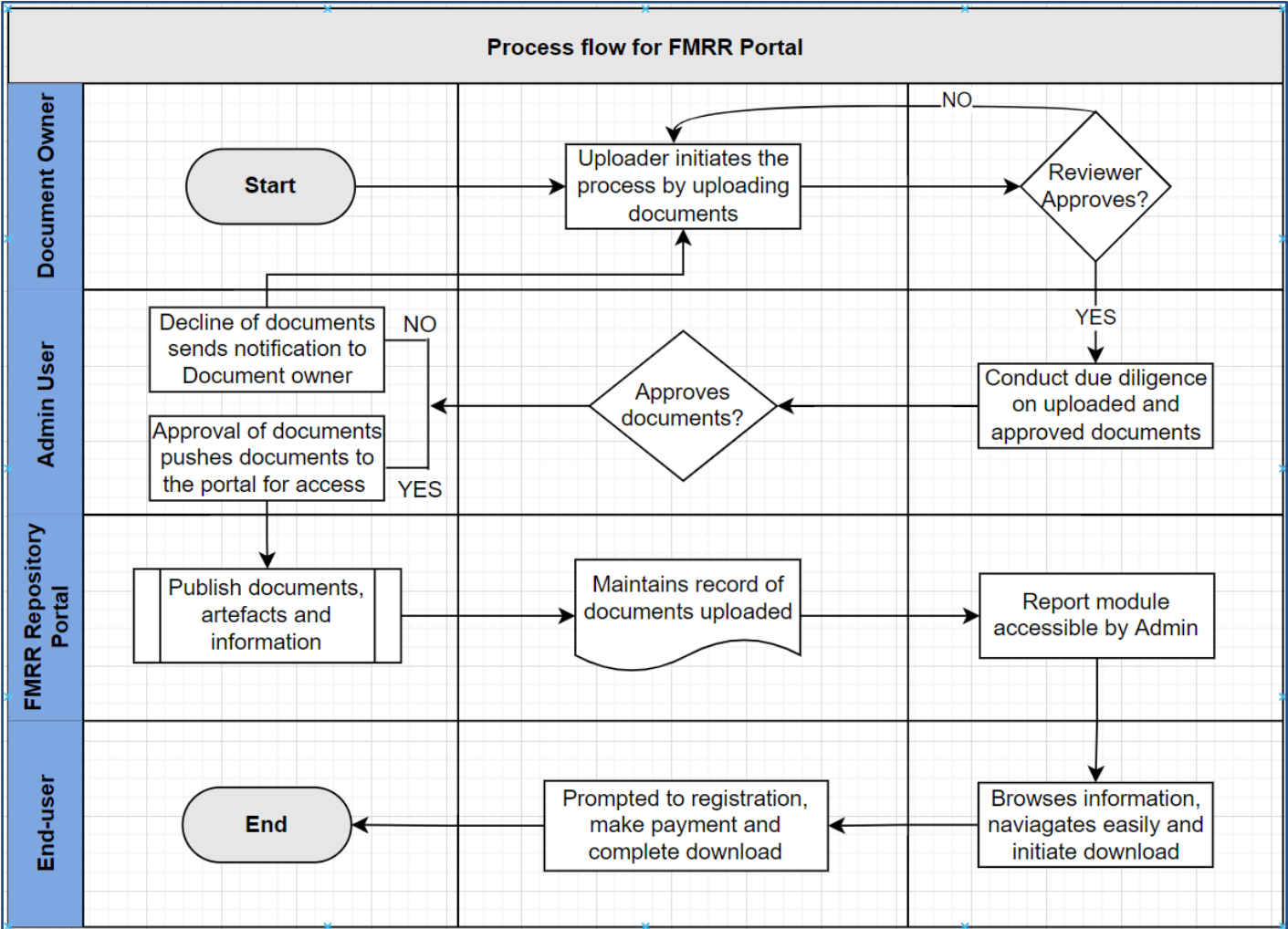
- Documents and information uploaded by administrative users will be subjected to operational due diligence independent from the platform to ensure correctness and completeness
- Acceptance criteria as communicated by the product owner will be based on adaptation of the user interface and user experience (UI/UX) of the web pages to reflect similar themes on the web pages of South Australian Legislation website - <https://www.legislation.sa.gov.au/> and <https://www.legislation.qld.gov.au/>

### **3.2 Constraints**


- The content management component will not validate the correctness, completeness of documents and information uploaded to the repository portal, required due diligence is to be completed manually by the document owners, reviewers, and administrative users.
- All documents and information - Rules & Regulations, Guidelines, Market Circulars, Market Bulletins, Market Notices and other information, Search) to be migrated or made available on the Rules and Regulation repository portal will be provided in a classified and specified format in alignment to the requirements captured in this document




4. Process Flow



5. Functional Requirements

S/N	Module	Functional Specifications/Requirements
1	Login Page	<p>User will be required to register or login at the point when they attempt to initiate document download.</p>  <p>As part of the user journey discussed, end-users will be prompted to pay for documents before they can be allowed to download same. The following payment options were suggested by the Product Owner (Market Data Group – MKG):</p> <ul style="list-style-type: none"> <li>▪ <b>Pay per document download:</b> This option will enable end-users pay and download single document</li> <li>▪ <b>Pay for bulk document download:</b> This option will enable end-users pay and download document in bulk (Product definition for grouping and combining documents will be provided by the Product Owner)</li> <li>▪ <b>Subscription based pricing:</b> This option will provide end-user access to read the document online and an option to download documents</li> </ul>
	Payment Options (discussed)	<p><b>Note:</b></p> <p>User will be required to register to create user credentials “Username” and “Password” before they can download documents from the portal</p>

2	<p><b>Landing Page (a)</b></p>	<p>The landing page should have the following menu at the top of the page:</p> <ul style="list-style-type: none"> <li>Home</li> <li>Rules &amp; Regulations</li> <li>Guidelines</li> <li>Market Circulars</li> <li>Market Bulletins</li> <li>Market Notices</li> <li>Search</li> </ul> <p>Directions for the landing page menu can be adopted from:  <a href="https://www.legislation.qld.gov.au/">https://www.legislation.qld.gov.au/</a></p>
3	<p><b>Landing Page (b)</b></p>	<p>The landing page should have the following:</p> <p><b>Pictures:</b> The product owner will engage with Events &amp; Brand Operations Group "EBG" for the use of approved digital images inline with the FMDQ Group Branding requirements.</p> <p>See image below for design directions:</p> <div data-bbox="483 947 1458 1612">  <p>South Bank Beach and Parklands, Brisbane City          Courtesy of Tourism and Events Queensland</p> <p>Welcome to the Queensland legislation website</p> <p><b>ALERT: COVID-19 modifications of laws</b>          From the commencement of the COVID-19 Emergency Response Act 2020 (the ER Act) on 23 April 2020 until the COVID-19 legislation expiry day (30 April 2022), the ER Act and extraordinary regulations and statutory instruments made under that Act modified a significant number of Queensland laws. Affected legislation operated as modified, but the modifications did not amend the text of the law. Accordingly, point-in-time versions of legislation in force between 23 April 2020 and 30 April 2022 may be affected by the ER Act or by extraordinary regulations or statutory instruments that were in force at the same time. Extraordinary regulations made under the ER Act expired on 30 April 2022.</p> <p>Particular Acts contain modifications that will expire on the COVID-19 public health legislation expiry day. See for example the <i>Corrective Services Act 2006</i>, part 15A, the <i>Disaster Management Act 2003</i>, part 12A, and the <i>Public Health Act 2005</i>, part 7B.</p> <p>The <i>Transport Legislation (COVID-19 Emergency Response) Regulation 2020</i> modifies transport regulations and will expire 6 months after the day the COVID-19 emergency ends.</p> <p><b>ALERT: COVID-19 public health directions</b></p> </div>
4		<ul style="list-style-type: none"> <li><b>News alert section:</b> This section should only display latest news, proclamations &amp; notices.</li> <li><b>Home</b> – The home page should have the "search" bar. A user should be able to search for any item via the search bar. It should also have a "Browse" functionality as seen below.</li> </ul> <p>Directions for the landing page menu can be adopted from:  <a href="https://www.legislation.qld.gov.au/">https://www.legislation.qld.gov.au/</a></p>





5	<div><div>Guidelines</div><div><div>Browse</div><div><div>Acts</div><div>Bills</div><div>Regulations &amp; Rules</div><div>Policies</div><div>Proclamations &amp; Notices</div></div></div></div> <div><p><b>Note:</b> The highlighted in the screenshot above should only display the following items:</p><ul style="list-style-type: none"><li>▪ Rules &amp; Regulations</li><li>▪ Guidelines</li><li>▪ Market Circulars</li><li>▪ Market Bulletins</li><li>▪ Market Notices</li></ul><p>.</p><p><b>Guidelines</b> – This page should have a “search” “Guidelines A – Z” “. See sample below.</p><p>Directions: Landing Page → Browse (Click on “Guidelines”) → Launches the search page for “Guidelines”</p><div><div>🏠 &gt; Legislation &gt; Acts</div><div>Acts of the Parliament of South Australia</div><div><div>Search for Acts by keyword</div><div><div>Try keywords like 'heritage' or 'transport'</div><div>🔍</div></div><div><div>Acts A-Z</div><div>As made Acts</div></div><div><div>Browse Acts A-Z</div><div>Program of consolidation</div></div></div><p>The “<b>Guidelines A – Z</b>” page should display alphabetically and contain both current and historical versions (<b>including ceased versions</b>) with index information:</p></div></div>
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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T
U	V	W	Y	Z														

2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
2009	2008	2007	2006	2005	2004	2003						



b) MS Word

Note: End-users will be prompted to login or register at the point of document download before proceeding to make payment and download

- **Directions:** Landing Page → Browse (Click on “Market Circulars”) → Launches the search page for “Market Circulars”
- The Market Circularspage should be displayed by the following:
  1. By Parliament Number/Year
  2. By Title

The screenshot shows the 'Bills' search interface. At the top, there are two tabs: 'By Parliament Number/Year' (selected) and 'By Title'. Below the tabs, the heading 'Browse Bills Introduced into Parliament (by Parliament/Year)' is displayed. The main content is a table with four rows, each representing a Parliament session. Each row has three columns: 'Parliament', 'Period', and 'Years'. The 'Years' column contains a list of years that are clickable.

Parliament	Period	Years
57th Parliament	12/11/2020 to ...	<a href="#">2022</a> <a href="#">2021</a> <a href="#">2020</a>
56th Parliament	14/02/2018 to 06/10/2020	<a href="#">2020</a> <a href="#">2019</a> <a href="#">2018</a>
55th Parliament	13/02/2015 to 29/10/2017	<a href="#">2017</a> <a href="#">2016</a> <a href="#">2015</a>
54th Parliament	15/05/2012 to 06/01/2015	<a href="#">2014</a> <a href="#">2013</a>

- Item one (1) above (By Parliament Number/Year) should display as shown in the above screenshot. The “years” should be clickable and should display all the Bills released in the referenced year. For instance, once the user clicks on 2022, all bills released in the said year should be displayed as seen below.

The screenshot shows the 'Results' page. At the top, there is a 'Show' dropdown set to '10' and a 'Rows' label. To the right, there is a 'Search' input field and a 'Year' dropdown set to '2022'. Below this, there is a table with the following columns: 'Title', 'Publication Date', 'Year', 'EN', 'HR', and 'Actions'. The table lists 10 bills for the year 2022. At the bottom, there is a 'Showing 1 to 10 of 35 titles' label and a pagination bar with links for 'First', 'Previous', '1' (selected), '2', '3', '4', 'Next', and 'Last'. A note at the bottom states: '\*Note: An asterisk (\*) at the end of a Bill's short title indicates the Bill is a private member's Bill.'

Title	Publication Date	Year	EN	HR	Actions
<a href="#">Public Health and Other Legislation (Extension of Expiring Provisions) Amendment Bill 2022</a>	22/02/2022	2022			
<a href="#">Land and Other Legislation Amendment Bill 2022</a>	17/03/2022	2022			
<a href="#">Racing Integrity Amendment Bill 2022</a>	24/02/2022	2022			
<a href="#">Personal Injuries Proceedings and Other Legislation Amendment Bill 2022</a>	31/03/2022	2022			
<a href="#">Nature Conservation and Other Legislation Amendment Bill 2022</a>	24/02/2022	2022			
<a href="#">State Penalties Enforcement (Modernisation) Amendment Bill 2022</a>	17/03/2022	2022			
<a href="#">Animal Care and Protection Amendment Bill 2022</a>	12/05/2022	2022			
<a href="#">Trading (Allowable Hours) and Other Legislation Amendment Bill 2022</a>	25/05/2022	2022			
<a href="#">Transport Legislation (Road Safety and Other Matters) Amendment Bill 2022</a>	26/05/2022	2022			
<a href="#">Health Practitioner Regulation National Law and Other Legislation Amendment Bill 2022</a>	11/05/2022	2022			

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document name and date.

- By default, the search return doesn’t include “Ceased Rules & Regulations”, Users can click on the toggle below to include “Show Ceased Legislation”

Browse current and historical versions (including ceased versions) with index information

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T
U	V	W	Y	Z														

A

+ Show ceased legislation

Title

Aboriginal Heritage Regulations 2017

Aboriginal Lands Trust Regulations 2014

- The search hides all “Ceased Legislation” when users click on the toggle button “Hide Ceased Legislation”

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T
U	V	W	Y	Z														

A

- Hide ceased legislation

Title

Aboriginal Heritage Regulations 2017

Aboriginal Lands Trust (Control of Alcoholic Liquor and Regulated Substances on Yalata Reserve) Regulations 1990 - Ceased

- “As made rules & regulations” are without amendments and should be displayed alphabetically and year by year.





		<div><div>As made Proclamations &amp; Notices</div><div>A-Z Proclamations &amp; Notices</div><div>Browse Proclamations &amp; Notices as made 2003+</div><div>Proclamations and notices in this database are in the form in which they were initially made by the Governor (amendments are not incorporated).</div><div>Browse all</div><div><div>A B C D E F G H I J K L M N O P R S T</div><div>U V W Y Z</div></div><div>Browse year by year</div><div><div>2022 2021 2020 2019 2018 2017 2016 2015 2014 2013 2012 2011 2010</div></div></div>
9	Search	<div><p>The search page should have the following additional tabs:</p><ol style="list-style-type: none"><li>Basic</li><li>Advanced</li><li>Saved</li></ol><p>The basic search can be used for simple search queries while the advance search can be used to combine multiple search queries. The page for basic search can be seen below:</p><div><div>Search</div><div><div>Basic Advanced Menu assisted Saved</div><div><div>Select one or more collections</div><div><div><input checked="" type="checkbox"/> In force Acts</div><div><input type="checkbox"/> Acts as passed</div><div><input type="checkbox"/> Repealed Acts</div><div><input type="checkbox"/> Bills</div><div><input type="checkbox"/> Explanatory notes</div><div><input type="checkbox"/> Website information and help</div></div><div><div><input checked="" type="checkbox"/> In force subordinate legislation</div><div><input type="checkbox"/> SL as made</div><div><input type="checkbox"/> Repealed subordinate legislation</div><div><input type="checkbox"/> In force legislative histories</div><div><input type="checkbox"/> Repealed legislative histories</div><div><input type="checkbox"/> Other associated docs</div></div></div><div><div>Search for</div><div>Enter words</div></div><div><div>Search in</div><div>All Content</div></div><div><div>Search using</div><div>All of The Words</div></div><div><div>Limit search to year</div><div>Year and/or No: No</div></div><div><div>Point In Time</div><div>15/11/2022</div></div><div><div>Clear Search</div></div></div></div></div> <div><p>In this context, the “select one or more collections” will only have the following fields as applicable:</p><ul style="list-style-type: none"><li>Rules &amp; Regulations</li><li>Guidelines</li><li>Market Circulars</li><li>Market Bulletins</li><li>Market Notices</li></ul></div>



- Other associated documents

The “**Search in**” field should have a drop down that will enable user to limit search and the items in the drop down will include the following:

- Title
- All Headings
- Part/Division Headings
- Schedule Headings
- Defined Terms
- Historical Title

The “**Search using**” field should have a drop down that will enable user to limit search and the items in the drop down will include the following:

- All of The Words
- Any of The Words
- The Exact Phrase
- Without The Words

Once you populate all the fields, click on search and the result will be displayed as seen below

Results

SaveFilterClose

Q Document Types="SL", Search In="All Content", All Words="Bills", Year="2021", Point In Time="15/11/2022"

Show10Rows

FirstPrevious1NextLast

Title	Publication Date	No.	Year	Actions
<a href="#">First Home Owner Grant and Other Home Owner Grants Regulation 2021</a>	19/03/2021	18	2021	

Showing 1 to 1 of 1 titles

FirstPrevious1NextLast

1. The documents should be available in the following format for download:
  - PDF
  - MS Word
  - Purchase

2. The advanced search page sample can be seen below





		<div><div><div><div>Search</div><div><div>BasicAdvancedMenu assistedSaved</div><div><div>Select one or more collections</div><div><div><input checked="" type="checkbox"/> In force Acts</div><div><input type="checkbox"/> Acts as passed</div><div><input type="checkbox"/> Repealed Acts</div><div><input type="checkbox"/> Bills</div><div><input type="checkbox"/> Explanatory notes</div><div><input type="checkbox"/> Website information and help</div></div><div><div><input checked="" type="checkbox"/> In force subordinate legislation</div><div><input type="checkbox"/> SL as made</div><div><input type="checkbox"/> Repealed subordinate legislation</div><div><input type="checkbox"/> In force legislative histories</div><div><input type="checkbox"/> Repealed legislative histories</div><div><input type="checkbox"/> Other associated docs</div></div></div><div><div>Search for</div><div><div>Enter words</div><div>in</div><div>All Content</div><div>using</div><div>All of The Words</div></div><div><div>AND</div><div>Enter words</div><div>in</div><div>All Content</div><div>using</div><div>All of The Words</div></div><div><div>AND</div><div>Enter words</div><div>in</div><div>All Content</div><div>using</div><div>All of The Words</div><div>+</div></div></div><div><div>Limit search to year</div><div>Year</div><div>and/or No:</div><div>No</div></div><div><div>Point In Time</div><div>15/11/2022</div><div></div></div><div><div>Clear</div><div>Search</div></div></div></div></div><div><p>The “select one or more collections”, “search in” and “search using” fields should be the same as the basic search page.</p><p>3. The field with “And” should also have a dropdown to include “Or” and “Not”.</p><p>4. The search criteria should also include “year” and “number”.</p></div></div>
10	Feedback Page	<div><div><div>Contact us</div><div><div>The Office of Parliamentary Counsel appreciates your feedback. Please use the form below to report an issue, make a suggestion or ask a question.</div><div><div>Subject</div><div></div></div><div><div>Message</div><div></div></div><div><div>Your name</div><div></div></div><div><div>Your email</div><div></div></div><div><div>Submit</div></div></div></div></div>



11	<p><b>Back-end features</b></p>	<p>The financial markets rules &amp; regulations repository portal should have the following back-end administrator features:</p> <ul style="list-style-type: none"><li>▪ Capability to upload documents (Pdf and MS Word)</li><li>▪ The admin should also have the ability to delete uploaded documents.</li><li>▪ A profile should be created for the admin to enable him or her upload documents successfully</li><li>▪ The categories of persons to be profiled will be made available in due time</li><li>▪ The admin should also be able to edit already uploaded documents</li></ul> <p>The upload functionality should have the following fields:</p> <ul style="list-style-type: none"><li>▪ Rules &amp; Regulations<ul style="list-style-type: none"><li>➤ Title</li><li>➤ Publication Date</li><li>➤ Year</li><li>➤ Number of released Rules &amp; Regulations</li><li>➤ Document type (Pdf or MS Word)</li><li>➤ Submit</li></ul></li></ul> <p>Refer to the display of Rules &amp; Regulations in the screenshot above (Under Rules &amp; Regulations).</p> <ul style="list-style-type: none"><li>▪ Guidelines<ul style="list-style-type: none"><li>➤ Title</li><li>➤ Publication Date</li><li>➤ Year</li><li>➤ Number of released Guidelines</li><li>➤ The parliament numbers</li><li>➤ Document type (Pdf or MS Word)</li><li>➤ Submit</li></ul></li></ul> <p>Refer to the display of Bills in the screenshot above (Guidelines).</p> <ul style="list-style-type: none"><li>▪ Market Circulars<ul style="list-style-type: none"><li>➤ Title</li><li>➤ Year</li><li>➤ Number of released Rules &amp; Regulations</li><li>➤ Document type (Pdf or MS Word)</li><li>➤ Submit</li></ul></li></ul> <p>Refer to the display of Rules &amp; Regulations in the screenshot above (Under Rules &amp; Regulations).</p>
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		<ul style="list-style-type: none"><li>▪ Market Bulletins<ul style="list-style-type: none"><li>➤ Title</li><li>➤ Date</li><li>➤ Page</li><li>➤ Document type (Pdf or MS Word)</li><li>➤ Submit</li></ul></li></ul> <p>Refer to the display of Rules &amp; Regulations in the screenshot above (Under Rules &amp; Regulations).</p> <ul style="list-style-type: none"><li>▪ Market Notices<ul style="list-style-type: none"><li>➤ Title</li><li>➤ Date</li><li>➤ Page</li><li>➤ Document type (Pdf or MS Word)</li><li>➤ Submit</li></ul></li></ul> <p>Refer to the display of Policies in the screenshot above (Under Policies).</p> <p><b>Note:</b></p> <ul style="list-style-type: none"><li>▪ During the upload process, once an item (Rules &amp; Regulations, Guidelines, Market Circulars, Market Bulletins, Market Notices) is selected, the fields under each of the item should populate automatically.</li></ul> <p><b>User Access Management</b></p> <p>User access management module will be made available to Market Services Group (“MSG”). MSG will be created as Super Administrator with responsibilities for creation of user roles and permissions.</p>
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6. OTHER REQUIREMENTS

This section includes non-functional requirements that describe conditions under which a solution must remain effective or qualities that a solution must have.

6.1 Interface Requirements

- The content of the pages should be well formatted and possess a good error handling workflow
- The navigation of the interface should be smooth and intuitive while references to related data elements are well arranged
- The link to the interface should be compatible with the top five (5) browsers
- The display should be clear, easy to read using appropriate font and font sizes
- The status of progress and completion notification should be displayed



## 6.2 User Experience

- For ease of use, user-friendly interactive and intuitive interface will be adopted to improve user experience
- Records of participants already onboarded will be migrated to the new application as part of Go-live readiness activities
- **Responsiveness:** the portal should be compatible to run on different web and mobile browsers - Google Chrome, Microsoft Internet Explorer, Opera, Mozilla Firefox, and Apple Safari. It should also be able to run on different mobile operating systems– iOS, Android, Windows

## 6.3 Scalability/Stability

The platform can be scaled to accommodate more users and more contents; the portal is expected to host large volume of information with concurrent users at any point in time.

## 6.4 Security and Privacy

- The application will be subjected to Vulnerability Assessment and Penetration Test (VAPT) and vulnerabilities identified will be resolved and managed in line with the IT Security policy
- To ensure the confidentiality, integrity, and availability of the application, the application should meet the security requirements stated in here
- The application should be operated in a secure environment, implementing industry best practices such as ISO 27001, The Payment Card Industry Data Security Standard (“**PCI-DSS**”), The Defense Information Systems Agency (“**DISA**”) The Security Technical Implementation Guide (“**STIGs**”) or The National Institute of Standards and Technology (“**NIST**”) checklists and guidelines and associated vendor recommendations (e.g., Microsoft Security Guidance, Oracle Hardening Guides, etc.)
- At a minimum, the software used in and around the application must be up-to-date, and there must be no known vulnerabilities
- Vulnerability assessment and penetration testing should be done against the OWASP Top 10 Web Application Vulnerabilities (Version 2021), and all vulnerabilities remediated

## 6.5 Backup and Recovery

The platform should have mechanisms in place to support data recovery

## 6.6 System Validation Rules

All specified mandatory fields and business rules will be taken into considerations at the implementation phase



FMDQ Color Guide:



Catalogue for Financial Markets Rules and Regulations Portal

- The catalogue provided by the Product Owner (MKG) will be used as a basis for developing the index and logic for categorisation and management of uploaded documents



Catalogue for  
Financial Markets Rules

