



Department of Computer Science
University of Delhi



Internship Project Report

Regulatory Reporting Solutions “RAPTOR”

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Declaration

Internship done under the guidance of
Dr. Kuldeep Singh and mentorship
under **Mr. Sunil Meena**

The work presented in this project entitled “Regulatory Reporting Solutions (RAPTOR)” presented in partial fulfillment for the award of the degree of Master of Science (Computer Science) submitted in the Department of Computer Science, University of Delhi, Delhi is an authentic work carried out from 9 Jan, 2023 to 9 JULY, 2023 under the guidance of Dr. Kuldeep Singh, University of Delhi.

Indus Valley Partners

Company

Indus Valley Partners is a tech based consulting firm focused on the capital market domain since 2000.

With its three main segments of business- IVP Products, IVP Managed Services and IVP Consultancy, the company helps its clients stay a step ahead in the capital market domain.

CEO and Founder



Gurvinder Singh

Expertise: New Fund Launches,
Hedge Fund Trading Strategies,
Fund Administration

CCO



Gaurav Aggarwal

Expertise: : Portfolio Accounting,
Performance Attribution,
Regulatory Reporting

Products under Indus Valley Partners

Company's products and services are divided into two main segments -

Front Office Products

- Enterprise Data Management
- Portfolio Solution
- Security and Reference Master
- Decision Science
- Data Warehouse
- Order Management System

Middle/Back Office Products

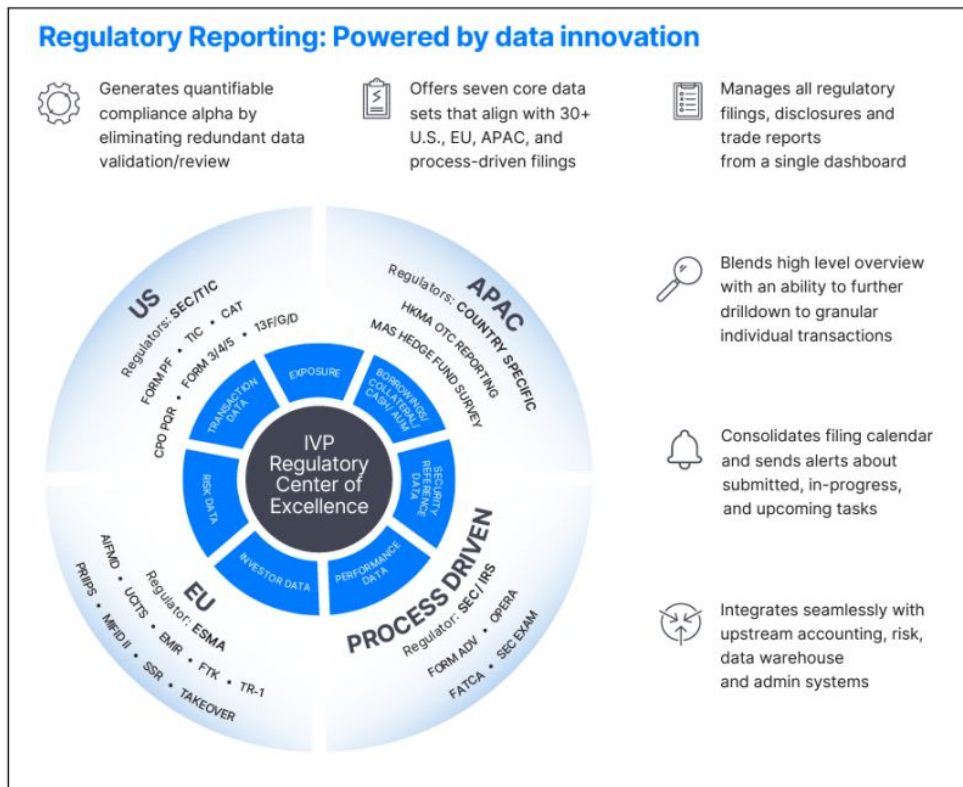
- Reconciliation Solution
- Cash Management Solution
- ALT Data Analyzer
- **Regulatory Reporting Solution**
- Expense Allocation Solution
- ESG Management
- Treasury Management
- NAV Solution
- Pricing & Valuation Automation Solution

For more details about these products, please visit the company website

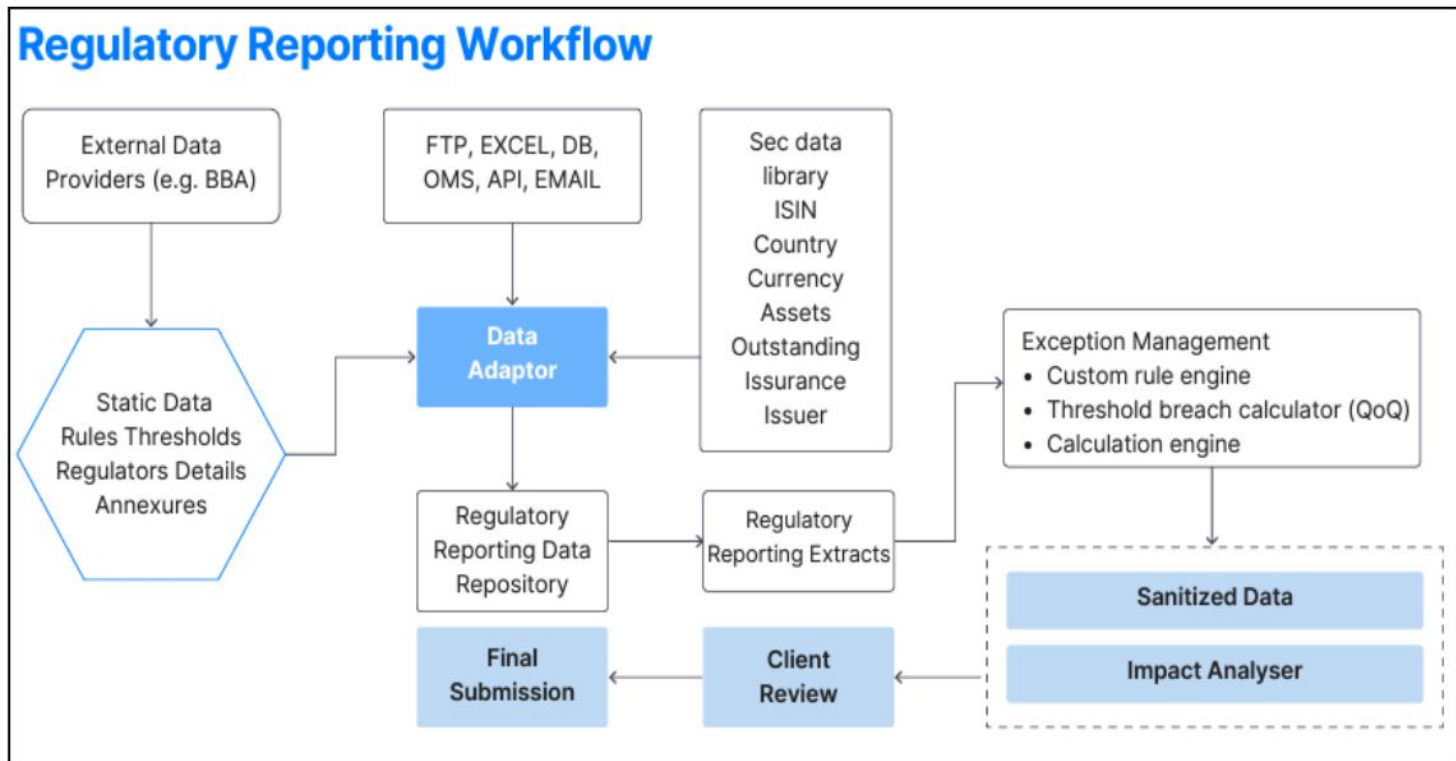
Regulatory Reporting Solution “Raptor”

Regulatory Reporting Solutions Overview

Regulatory Reporting brings automation and data expertise to the regulatory technology ecosystem, offering seven core data sets that can drive more than 30 global filings with a single, streamlined workflow. Together with the company's digital-first managed services, Raptor uses a cloud-based deployment model to bring enormous economies of scale to compliance reporting.



Regulatory Reporting Solutions Workflow

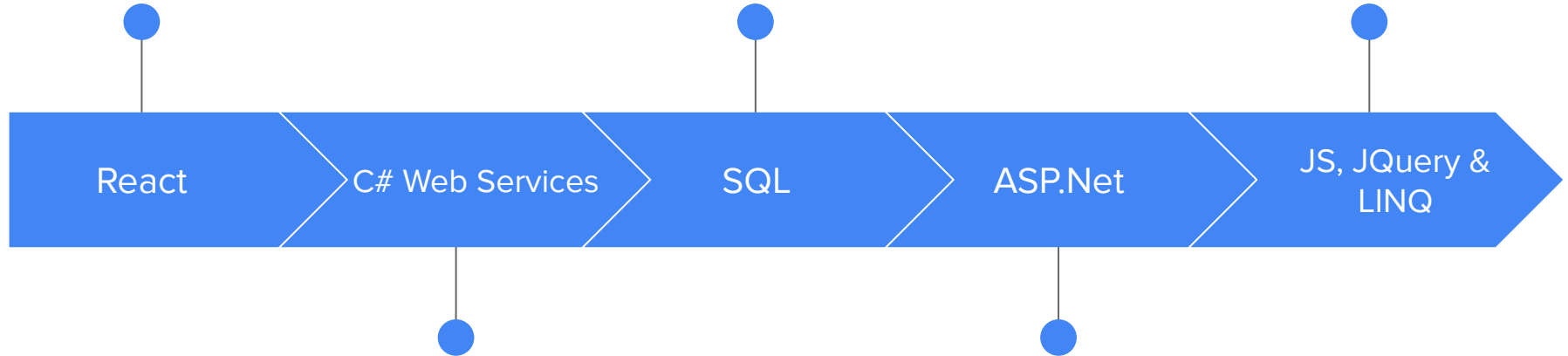


Technologies in Raptor

React 18, Typescript, Redux Store, Redux Saga, Jest

Storing all the data, fillings, regulator's validations etc.

Core of Raptor, responsible for building dynamic components with the help of JQuery and LINQ.



Develop Web Services

Modern framework accessed the web services, generate the dynamic HTML based code using javascript.

Project Work

Overview

The project work consists of most of the development in the **Frontend - React(Typescript), Redux, CSS Styling and Javascript**. Backend web services are developed, if required for these task, using the C# and LINQ.

The project work is divided into **three tasks**

- **Question Review Component**
- **Question Preview Component**
- **Question Footer Component**

Question Review Component

The design and requirements were taken from the existing Raptor Application. Screen captures are as follows -

My Questions In Form [Form PF Q1 2020 standard form](#) for [\[Sec 1a\] \[Q1\] Self and Related Persons](#)

Section 1a [Q1] Identifying Info. About self and related persons

a) Provide your name and the other identifying information requested below

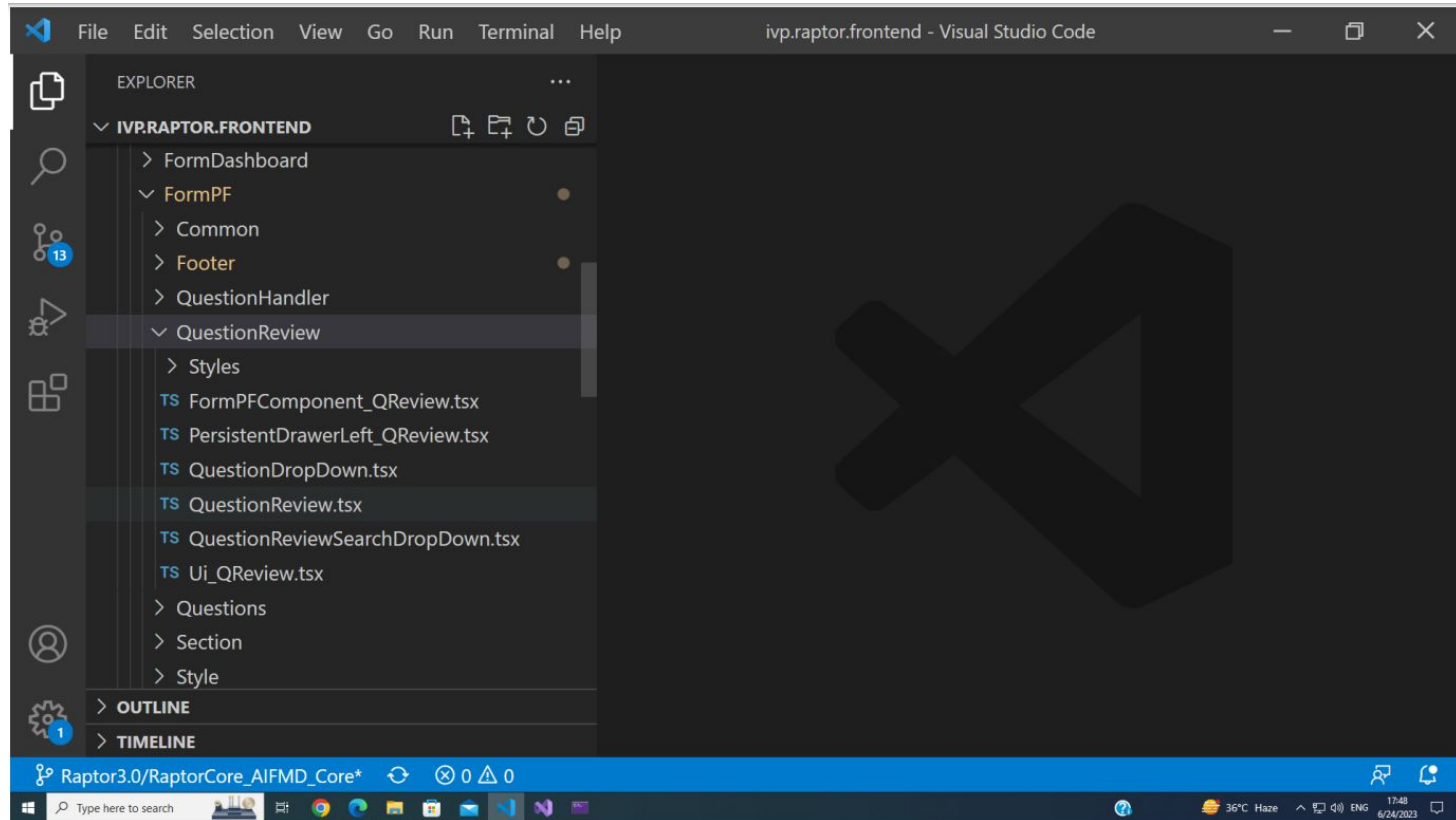
Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
Dreams International Limited	12457826	12215	11132	NA

b) Provide the following information for each of the related persons, if any, with respect to which you are reporting information on this Form PF

Related Person Type	CRD Number	Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
RGSTD_ERA	1234	IVP MST Management, L P	23330001	0123567	2341232	NA
CPO_CTA	2345	IVP Capital Management, L P		1234233	2341233	23412
RELY_SPV		Fund A Management, L P		0228970	2341234	23434

Question Review Component

Development Hierarchy of the code is:



Question Review Component

FormPFComponent_QReview.tsx

```
return (  
  <div id="pageContainer" className={cssClasses.FormPFComponent_pageTabPageContainer}>  
    <Box className={cssClasses.FormPFComponent_OuterBox}>  
      <Box className={cssClasses.FormPFComponent_InnerBox}>  
        <div className={cssClasses.FormPFComponent_OuterDiv}>  
          <div className={cssClasses.FormPFComponent_InnerDiv}>  
            <Link className={cssClasses.FormPFComponent_pageTabBreadCrumpDisabled} to="/" />  
            <div className={cssClasses.FormPFComponent_pageTabBreadCrumpDisabled}>Summary Dashboard</div>  
            </Link>  
            <div className={cssClasses.FormPFComponent_pageTabBreadCrumpArrow}>&gt;&gt;</div>  
            <Link className={cssClasses.FormPFComponent_pageTabBreadCrumpDisabled} to={formSummaryUrl}>  
              <div className={cssClasses.FormPFComponent_pageTabBreadCrumpDisabled}> Form Dashboard </div>  
            </Link>  
            <div className={cssClasses.FormPFComponent_pageTabBreadCrumpArrow}>&gt;&gt;</div>  
            <div className={cssClasses.FormPFComponent_pageTabBreadCrump}>Form</div>  
          </div>  
        </div>  
        <div className={cssClasses.FormPFComponent_TabDiv}>  
          <lvpTabControl onChange={tabChangeHandler} tabsObj={tabsObj} variant='lvpTabControlSecondaryStandard' controlId="1"  
            tabStyling={{fontSize: "0.813rem"}} />  
        </div>  
      </Box>  
      {tab == "Form" && <Ui_QReview refresh={refresh} setRefresh={setRefresh} tab={tab} formId={formId}  
        fundId={fundId} questionId={questionId} initialView={initialView} previewType="question" />  
      {tab == "Fund" && <Ui_QReview refresh={refresh} setRefresh={setRefresh} tab={tab} formId={formId}  
        fundId={fundId} questionId={questionId} initialView={initialView} previewType="question" />  
    </Box>  
  </div>  
)
```

Question Review Component

Ui_QReview.tsx

```
return (
  FormPFReviewJSONdataLoading ?<ThreeDotSpinner/>:<div id="FormPFUi_QuestionReview">
    <Grid container spacing={2}>
      <Grid item xs={open ? 2.2 : 0.2} sm={open ? 2.2 : 0.2} md={open ? 2.2 : 0.2}>
        <div>
          <PersistentDrawerLeft_QReview initialView={props.initialView} previewType={props.previewType} fundId={props.fundId}
            setFundSelected = {setfundSelected} questionSelected={questionSelected}
            FormProperties={FormProperties} data={props.tab == "Fund" ? LeftMenuQuestionData: undefined}
            open={open} setOpen={setOpen} />
        </div>
      </Grid>
      <Grid item xs={open ? 12 - 2.2 : 12 - 0.2} sm={open ? 12 - 2.2 : 12 - 0.2} md={open ? 12 - 2.2 : 12 - 0.2}>
        <div>
          <QuestionReviewDropDown initialView = {props.initialView} printState={ printState} setPrintState={setPrintState} tab={props.tab}
            refresh={props.refresh} setRefresh={props.setRefresh} FormProperties={FormProperties}
            previewType={props.previewType} formDetailsQuestionReview={FormPFformDetailsQuestionReview}
            questionSelected={questionSelected} setSelectedQuestion={getQuestion} setQuestion={setQuestion}
            questionData={questionData} />
        </div>
        <div id="questionContainer">
          <div data-testid="FormPFUiquestionContainer" id="questionContainerInner" className={open == false
            ? cssClasses.FormPFUI_navBodyClose : cssClasses.FormPFUI_navBodyOpen}>
            < QuestionFilter    formId = {FormProperties.formId} ref={componentRef} questionData={questionData}
              setQuestion={setQuestion} FormProperties={FormProperties} sectionSelected={questionSelected}
              tab={props.tab} previewType={props.previewType} />
          </div>
        </div>
      </Grid>
    </Grid>
  </div>
)
```

Question Review Component

Preview of the Question UI Component is as follows:

The screenshot displays a web application interface for reviewing questions. The browser address bar shows a local host URL. The application has a sidebar with navigation links for Section 1a, including [Q1] Self and Related Persons, [Q2] Signatures, [Q3] Regulatory and Net AUM, and [Q4] Assumptions. The main content area shows the 'My Questions in Form Form PF Q1 2020 standard form for Section 1a' with a progress bar indicating '25 % Level 1 Approved'. A context menu is open over the form, showing options: Approve L1, Approve L2, Revoke L1, Revoke L2, Save All, Preview, Question Review, Refresh, Question Status, Master Audit, and Form On. The form itself is divided into two sections: Section 1a [Q1] Identifying info, About self and related persons, and Section 1a [Q2] Signatures: Self and related persons. Section 1a [Q1] includes a table for related persons with columns for Related Person Type, CRD Number, Legal Name, SEC 801-Number, NFA ID Number, and Large Trader ID. Section 1a [Q2] includes fields for Signature on behalf of the firm and its related persons, and Signature on behalf of related persons.

Section 1a [Q1] Identifying info, About self and related persons

a) Provide your name and the other identifying information requested below

Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID
Dreams International Limited	12457826	12,215	11132

b) Provide the following information for each of the related persons, if any, with respect to which you are reporting information on this Form PF

Related Person Type	CRD Number	Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID
RSTD_ERA	1,234	IVP MST Management, L P	23330001	0123,567	2341232
CPO_CTA	2,345	IVP Capital Management, L P		1,234,233	2341233
RELY_SPV		Fund A Management, L P		0228,970	2341234

Section 1a [Q2] Signatures: Self and related persons

Signature on behalf of the firm and its related persons

Title	Name
CEO	John Kelly

Signature

John Kelly

Date

Mar 31 2020

Email

john.kelly@capitalmgt.com

Contact Number

923-432-213

Signature on behalf of related persons

Title	Name
MD	Peter Wright

Signature

John Wright

Date

Mar 02 2020

Question Review Component

Preview of the Question Review component is as follows:

Summary Dashboard >> Form Dashboard >> Form

My Questions in Form Form PF Q1 2020 standard form for [Sec 1a] [Q1] Self and Related Persons

Section 1a [Q1] Identifying info. About self and related persons

a) Provide your name and the other identifying information requested below

Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
Dreams International LI...	12457826	12,215	11132	NA

b) Provide the following information for each of the related persons, if any, with respect to which you are reporting information on this Form PF

Related Person Type	CRD Number	Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
RGSTD_ERA	1,234	IVP MST Management ,...	23330001	0123,567	2341232	NA
CPO_CTA	2,345	IVP Capital Manageme...		1,234,233	2341233	23412
RELY_SPV		Fund A Management ,...		0228,970	2341234	23434

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Task 2

Question Preview Component

Problem Statement

Using the existing code, create the logic and develop the Question Preview page for the Raptor.

Use the requirements collected during the task “Debug based tasks for the requirement collection for the project work” to complete the task.

Estimated Delivery: 7 working days

Question Preview Component

Question Preview Component enable its user to walkthrough the form application without disturbing its value filling informations or changing any form configuration throughout the walkthrough period, as the Question Preview disables all the editable fields throughout the application and also hides all the question ui header/footer and bulk actions utilities from the user.

Since the component is reusing the same code, multiple checks (if...else blocks and ternary operations) throughout the react application code have been set according to the requirements specified.

Question Preview Component

```
return ( <>[isRender()] && ThemeProvider theme={theme}><div id="pageId" className={cssClasses.FormPFComponent_pageTabPageContainer}>
    <Box className={cssClasses.FormPFComponent_OuterBox}>
        <Box className={cssClasses.FormPFComponent_InnerBox}>
            <div className={cssClasses.FormPFComponent_OuterDiv}><div className={cssClasses.FormPFComponent_InnerDiv}>
                <CustomBreadcrumbs breadcrumbs={breadcrumbs} /></div>
            </div>
            <div className={cssClasses.FormPFComponent_TabDiv}>
                <lvpTabControl onChange={tabChangeHandler} tabsObj={tabsObj} variant='lvpTabControlSecondaryStandard'
                    controlId="1"
                    tabStyling={{fontSize:"0.813rem"}} />
            </div>
            <div className={cssClasses.FormPFComponent_OuterFormConfigDiv}>
                <div className={cssClasses.FormPFComponent_InnerFormConfigDiv}>
                    {formconfigpermission?.[0]?.IsConfig &&
                        <Link className={cssClasses.FormPFComponent_pageTabBreadCrumpDisabled} to={formConfigUrl} >
                            <i className={`fa fa-cog fa-2 ${cssClasses.FormPFComponent_pageTabFormConfigImage}`}></i></Link>
                            &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
                            <Link className={cssClasses.FormPFComponent_pageTabBreadCrumpDisabled} to={formTemplateUrl} >
                                <img alt="Template Upload Menu"
                                    className={cssClasses.FormPFComponent_pageTabTemplateUploadIcon}
                                    src={String(TemplateUploadButton)} />
                            </Link>
                            &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
                            <CalendarMonthIcon className={cssClasses.FormPFComponent_pageTabCalenderIcon} />
                        <div className={cssClasses.FormPFComponent_pageTabFormdate}>{formpfdate}</div>
                    }
                </div>
            </div>
        </Box>
        {tab == "Form" && <FormPFUI tab={tab} formId={formId} sectionId={sectionId} fundId={fundId} questionId={questionId}
            pageType={props?.pageType} previewInitialState={previewInitialState} />
            {tab == "Fund" && <FormPFUI tab={tab} formId={formId} sectionId={sectionId} fundId={fundId} questionId={questionId}
            pageType={props?.pageType} previewInitialState={previewInitialState} />
        }
    </Box></div></ThemeProvider></>;
```

Question Review Component

Preview of the Question UI Component is as follows:

My Questions in Form Form PF Q1 2020 standard form for Section 1a

Section 1a

Section 1a [Q1] Identifying info. About self and related persons

a) Provide your name and the other identifying information requested below

Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID
Dreams International Limited	12457826	12,215	11132	NA

b) Provide the following information for each of the related persons, if any, with respect to which you are reporting information on this Form PF

Related Person Type	CRD Number	Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID
RGSTD_ERA	1,234	IVP MST Management , L P	23330001	0123,567	2341232
CPO_CTA	2,345	IVP Capital Management , L P		1,234,233	2341233
RELY_SPV		Fund A. Management , L P		0228,970	2341234

Section 1a [Q2] Signatures: Self and related persons

Signature on behalf of the firm and its related persons

Title	CEO	Name	John Kelly
Signature	John Kelly	Date	Mar 31 2020
Email	john.kelly@capitalmtg.com	Contact Number	323-432-213

Signature on behalf of related persons

Title	MD	Name	Peter Wright
Signature	John Wright	Date	Mar 02 2020

25 % Level 1 Approved

BULK ACTION

- Approve L1
- Approve L2
- Revoke L1
- Revoke L2
- Save All
- Preview
- Question Review
- Refresh
- Question Status
- Master Audit
- Form On

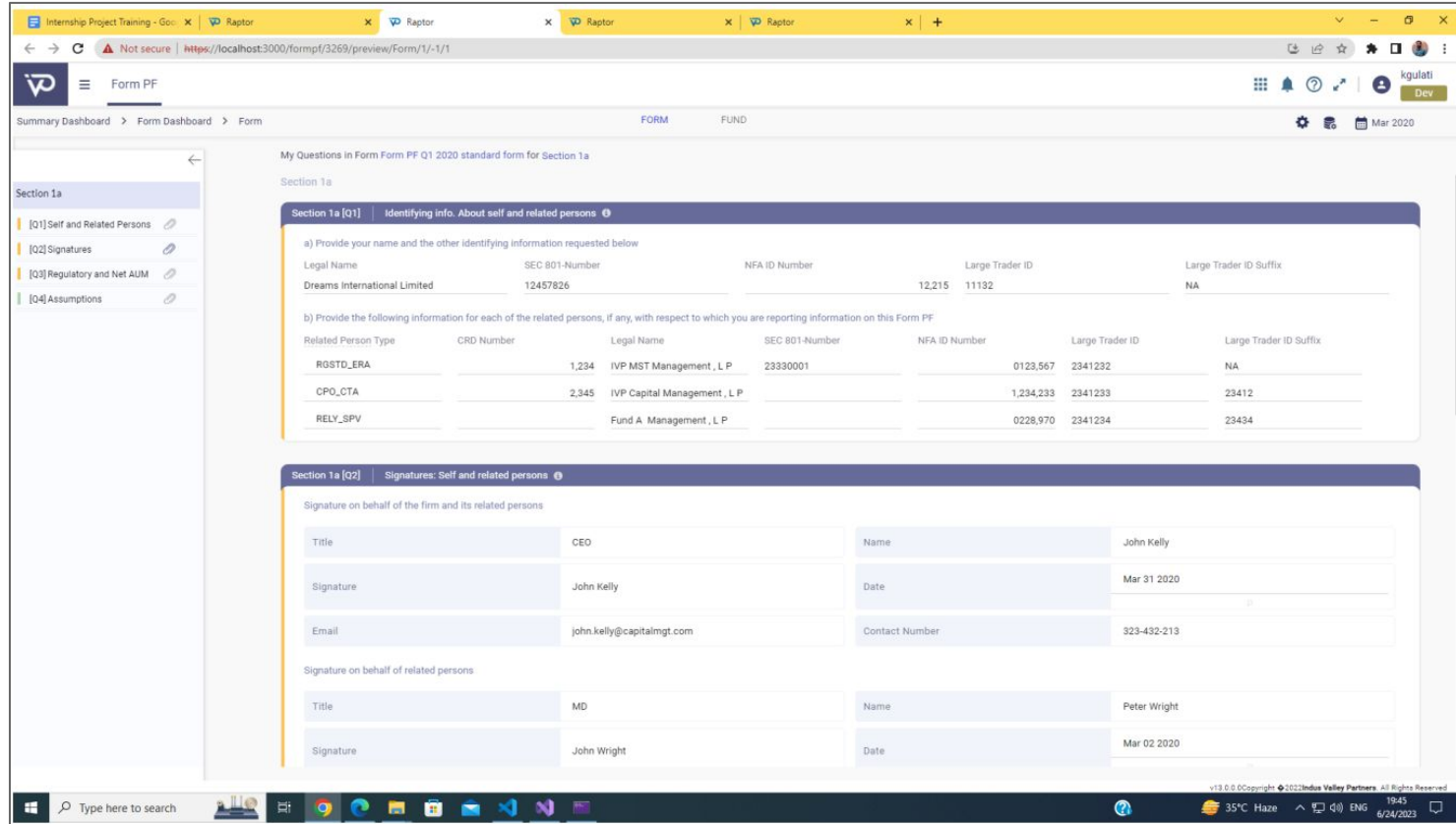
SAVE REFRESH Approve L1

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35°C Haze 19:44 4/24/2023

Question Review Component

Preview of the Question Preview Component is as follows:



My Questions in Form Form PF Q1 2020 standard form for Section 1a

Section 1a

Section 1a [Q1] Identifying info. About self and related persons

a) Provide your name and the other identifying information requested below

Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
Dreams International Limited	12457826	12,215	11132	NA

b) Provide the following information for each of the related persons, if any, with respect to which you are reporting information on this Form PF

Related Person Type	CRD Number	Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
RGSTD_ERA	1,234	IVP MST Management , L P	23330001	0123,567	2341232	NA
CPO_CTA	2,345	IVP Capital Management , L P		1,234,233	2341233	23412
RELV_SPV		Fund A. Management , L P		0228,970	2341234	23434

Section 1a [Q2] Signatures: Self and related persons

Signature on behalf of the firm and its related persons

Title	CEO	Name	John Kelly
Signature	John Kelly	Date	Mar 31 2020
Email	john.kelly@capitalmgt.com	Contact Number	323-432-213

Signature on behalf of related persons

Title	MD	Name	Peter Wright
Signature	John Wright	Date	Mar 02 2020

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Task 3

Question Footer Component

Problem Statement

Develop all the Question Footer Utilities for the Raptor.

Use the requirements collected during the task “Debug based tasks for the requirement collection for the project work” to complete the task.

Estimated Delivery: 20 working days

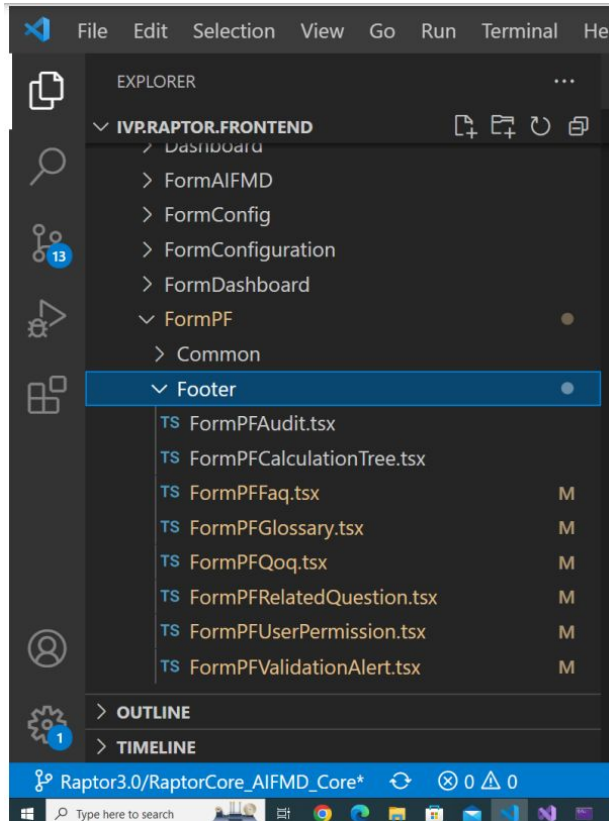
Question Footer Component

Question Footer is a set of utilities that enable its user to perform certain tasks on a particular question in the form filling. These operations are -

- Comment and Attachments
- Calculation Tree
- QoQ(Quarter over Quarter)
- User Permissions
- Related Questions
- Validation Alerts
- FAQs
- Glossary
- Audit

Question Footer Component

Development Hierarchy of the code is:



FormPFAudit.tsx

```
return (  
  <div id={props.FormProperties.formId + "_" +  
    props.FormProperties.currentFundId + "_" +  
    props.questionId + "_" + "support"}  
    className={cssClasses.Audit_questionSupport}>  
    <div id={props.FormProperties.formId + "_" +  
      props.FormProperties.currentFundId + "_" +  
      props.questionId + "_support_iframe_Audit"}  
        className={cssClasses.Audit_ActiveArrow} style={{  
          'left': props.leftStyle }}>  
  
    </div>  
    <div className={cssClasses.Audit_outerdiv}>  
      <div className={cssClasses.Audit_header}>  
        <div className={cssClasses.Audit_commentheading}>  
          AUDIT  
        </div>  
        <div className={cssClasses.Audit_tab}>  
          <IvpTabControl onChange={tabChangeHandler}  
            tabsObj={tabsObj} controlId="1"  
            variant='IvpTabControlSecondaryStandard'  
            tabStyling={{fontSize : "0.813rem"}} />  
  
        </div>  
      </div>  
  
      {GetAuditWrapper(AuditData, ApprovalAuditData,  
        ManualAuditData,ApprovalAuditDataSnapshot,IsAuditSnapshot)}  
    </div>  
  
  </div>  
);
```


Question Footer Component

GetAuditWrapper method for FormPFAudit.tsx

```
const GetAuditWrapper = (AuditData: any, ApprovalAuditData: any, ManualAuditData: any, ApprovalAuditDataSnapshot: any, IsAuditSnapshot: boolean) => {
  return (<>{ tab == "Question Level Audit" && <div className={cssClasses.Audit_grid}>
    <AdaptableGrid   ref={GridRef} adaptableOptions={AuditData["adaptableOptions"]}
                      GridProp={AuditData["gridProp"]} gridOptions={AuditData["gridOptions"]} />
    </div>}
    { tab == "Approval Audit" && <div className={cssClasses.Audit_grid}>{IsAuditSnapshot ? <
      <i className={fa fa-times $ {cssClasses.Audit_gridClose}} aria-hidden="true" onClick={()=>setIsAuditSnapshot(false)}></i>
    <AdaptableGrid   ref={GridRef} adaptableOptions={ApprovalAuditDataSnapshot["adaptableOptions"]}
                      GridProp={ApprovalAuditDataSnapshot["gridProp"]} gridOptions={ApprovalAuditDataSnapshot["gridOptions"]} />
    </>:
    <AdaptableGrid   ref={GridRef} adaptableOptions={ApprovalAuditData["adaptableOptions"]}
                      GridProp={ApprovalAuditData["gridProp"]} gridOptions={ApprovalAuditData["gridOptions"]} />
    </div>}
    {tab == "Manual Override Audit" && <div className={cssClasses.Audit_grid}>
    <AdaptableGrid   ref={GridRef} adaptableOptions={ManualAuditData["adaptableOptions"]} GridProp={ManualAuditData["gridProp"]}
                      gridOptions={ManualAuditData["gridOptions"]} />
    </div>
    }
  </>);
}
```

Question Footer Component

Screen Snips of the UI for the utilities are as follows-
FormPFQoq.tsx

The screenshot displays a web application interface for 'Form PF'. The browser address bar shows 'https://localhost:3000/formpf/3269'. The application has a sidebar with 'Section 1a' containing links for '[Q1] Self and Related Persons', '[Q2] Signatures', '[Q3] Regulatory and Net AUM', and '[Q4] Assumptions'. The main content area is titled 'My Questions in Form Form PF Q1 2020 standard form for Section 1a' and shows a progress bar for '25 % Level 1 Approved'. Below this is a table of related persons:

Related Person Type	CRD Number	Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
RGSTD_ERA	1,234	IVP MST Managemen...	23330001	0123,567	2341232	NA
CPO_CTA	2,345	IVP Capital Managem...		1,234,233	2341233	23412
RELY_SPV		Fund A. Management ...		0228,970	2341234	23434

Below the table is a 'QoQ' section titled 'FormPF test'. It contains two parts:

a) Provide your name and the other identifying information requested below

Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
		0012,321	1111313122	45645

b) Provide the following information for each of the related persons, if any, with respect to which you are reporting information on this Form PF

Related Person Type	CRD Number	Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
CPO_CTA	0	IVP MST Managemen...	23330002	0005,643	2341232	NA
CPO_CTA	0	IVP Capital Managem...	0	1,234,233	2341233	23412
RELY_SPV	0	Fund A. Managemen...	0		2341234	23434
RGSTD_ERA	44,444,648	test 4	4564564		5654646	45646

The footer of the application shows the version 'v13.0.0', copyright '©2022 Indus Valley Partners', and the date '6/25/2023'.

Question Footer Component

Screen Snips of the UI for the utilities are as follows-

FormPFUserPermissions.tsx

The screenshot displays a web application interface for 'Form PF'. The browser address bar shows 'https://localhost:3000/formpf/3269'. The application has a sidebar with a menu for 'Section 1a' containing four items: '[Q1] Self and Related Persons', '[Q2] Signatures', '[Q3] Regulatory and Net AUM', and '[Q4] Assumptions'. The main content area is titled 'My Questions in Form Form PF Q1 2020 standard form for Section 1a' and shows a progress bar for '25 % Level 1 Approved'. Below this, there is a table with columns for 'User Permissions', 'Last Action', and 'Last Modified'. The table lists ten users with their respective permissions and actions.

User	View Only	View & Save	L1	L2	Last Action	Last Modified
Shubhangi					Jun 23 2020 11:16PM	Responded
kgulati					Jun 15 2023 3:00PM	L1 Revoked
ckumar					Jun 13 2023 6:52PM	Responded
prawat					Apr 12 2023 12:18PM	L1 Revoked
bgarg					-	-
akazi					-	-
shpandey					-	-
pgoyal					-	-
cbisht					-	-
schawla					-	-
saahuja					-	-
chirag					-	-

The footer of the application shows the version 'v13.0.0', copyright '©2022 Indus Valley Partners', and the date '6/25/2023'.

Question Footer Component

Screen Snips of the UI for the utilities are as follows-

FormPFValidationAlert.tsx

My Questions in Form Form PF Q1 2020 standard form for Section 1a

25 % Level 1 Approved

Section 1a [Q1] | Identifying info. About self and related persons

a) Provide your name and the other identifying information requested below

Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
Dreams International Limited	12457826	12,215	11132	NA

b) Provide the following information for each of the related persons, if any, with respect to which you are reporting information on this Form PF

Related Person Type	CRD Number	Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
RGSTD_ERA	1,234	IVP MST Managemen...	23330001	0123,567	2341232	NA
CPO_CTA	2,345	IVP Capital Managem...		1,234,233	2341233	23412
RELY_SPV		Fund A. Management ...		0228,970	2341234	23434

Alert(s)

Q1 Section 1a [NFA ID Number] is not in correct Format (Error)

Section 1a [Q2] | Signatures: Self and related persons

Signature on behalf of the firm and its related persons

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Question Footer Component

Screen Snips of the UI for the utilities are as follows-

FormPFAudit.tsx

The screenshot displays a web application interface for 'Form PF'. The browser address bar shows 'https://localhost:3000/formpf/3269'. The application has a sidebar with a menu for 'Form PF' and a list of sections: [Q1] Self and Related Persons, [Q2] Signatures, [Q3] Regulatory and Net AUM, and [Q4] Assumptions. The main content area is titled 'My Questions in Form Form PF Q1 2020 standard form for Section 1a' and shows a progress bar for '25 % Level 1 Approved'. Below this, there is a table for 'b) Provide the following information for each of the related persons, if any, with respect to which you are reporting information on this Form PF'. The table has columns: Related Person Type, CRD Number, Legal Name, SEC 801-Number, NFA ID Number, Large Trader ID, and Large Trader ID Suffix. The data rows are: RGSTD_ERA (1,234, IVP MST Managemen..., 23330001, 0123,567, 2341232, NA), CPO_CTA (2,345, IVP Capital Managem..., 1,234,233, 2341233, 23412), and RELY_SPV (Fund A. Management ..., 0228,970, 2341234, 23434). Below the table, there is an 'AUDIT' section with tabs for 'QUESTION LEVEL AUDIT', 'APPROVAL AUDIT', and 'MANUAL OVERRIDE AUDIT'. The 'QUESTION LEVEL AUDIT' tab is active, showing a table with columns: Row Number, Field Name, Old Value, New Value, Type, Modified Date, and Modified By. The table contains 4 rows of data, all with 'Manual' type and 'ckumar' as the modified by. The total rows are 249.

Related Person Type	CRD Number	Legal Name	SEC 801-Number	NFA ID Number	Large Trader ID	Large Trader ID Suffix
RGSTD_ERA	1,234	IVP MST Managemen...	23330001	0123,567	2341232	NA
CPO_CTA	2,345	IVP Capital Managem...		1,234,233	2341233	23412
RELY_SPV		Fund A. Management ...		0228,970	2341234	23434

Row Number	Field Name	Old Value	New Value	Type	Modified Date	Modified By
1	Large Trader ID	11131	11132	Manual	Jun 13 2023 6:52PM	ckumar
1	Large Trader ID	1113	11131	Manual	Jun 13 2023 2:48PM	ckumar
1	Large Trader ID	11132	1113	Manual	Jun 13 2023 2:48PM	ckumar
1	Large Trader ID	1113	11132	Manual	Jun 13 2023 2:45PM	ckumar

Results

Result 1

Efforts taken for each component

Task Name	Estimated Efforts	Actual Efforts
Question Review Component	10 days	12 days
Question Preview Component	7 days	6 days
Question Footer Component	20 days	18 days

Result 2

Completion of component

Task Name	Development Completed
Question Review Component	Yes
Question Preview Component	Yes
Question Footer Component	Yes

Result 3

Submit for the production

Task Name	Sent to Deployment
Question Review Component	Under testing
Question Preview Component	Yes
Question Footer Component	Yes

Conclusion

- Added skills
- Advantage of working in the team
- Experience the rich culture of healthy office suite

Future Scope

- Work on different forms like Form AIFMD, CPO, H16 and 50 others
- Work on the client side, resolving their issues within promised time period
- Train other team members who will switch from the ASP.NET to React
- Build the project training schedule for the upcoming freshers

Thank You!