



Data Integration, Replication, Backup and Archive for SaaS Applications like



iPaaS Orchestrator (Cloud Workflow)

Noorul Ameen | UX Design

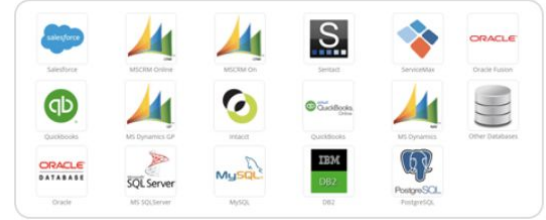
About Cloud Workflow



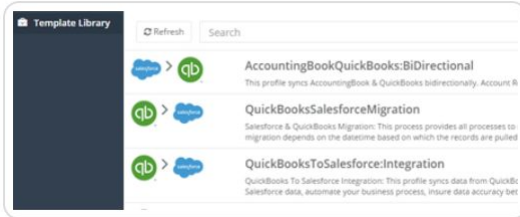
Integration Platform



Operate Any Device



Many Supported Connectors



Prebuilt Templates



Workflow Engine



Extend through APIcode

HUX.

From
Design
To Culture

UX

DESIGNING

Product - Cloud Workflow



User Experience Design



User Interface Design



Responsive Web Design



Dashboards & Analytics



Inclusive Design (Accessibility)

Our Design Process



ECOSYSTEM RESEARCH

Define goals of the redesign, define users, motivations and business goals



IDEATION

Analyze the content of the application, match that with the business goals and re-define the right user experience



DESIGNING

Explore design patterns and ways to visually represent the information. Sketching, wireframing, moodboards & style guides



USABILITY & EFFICIENCY

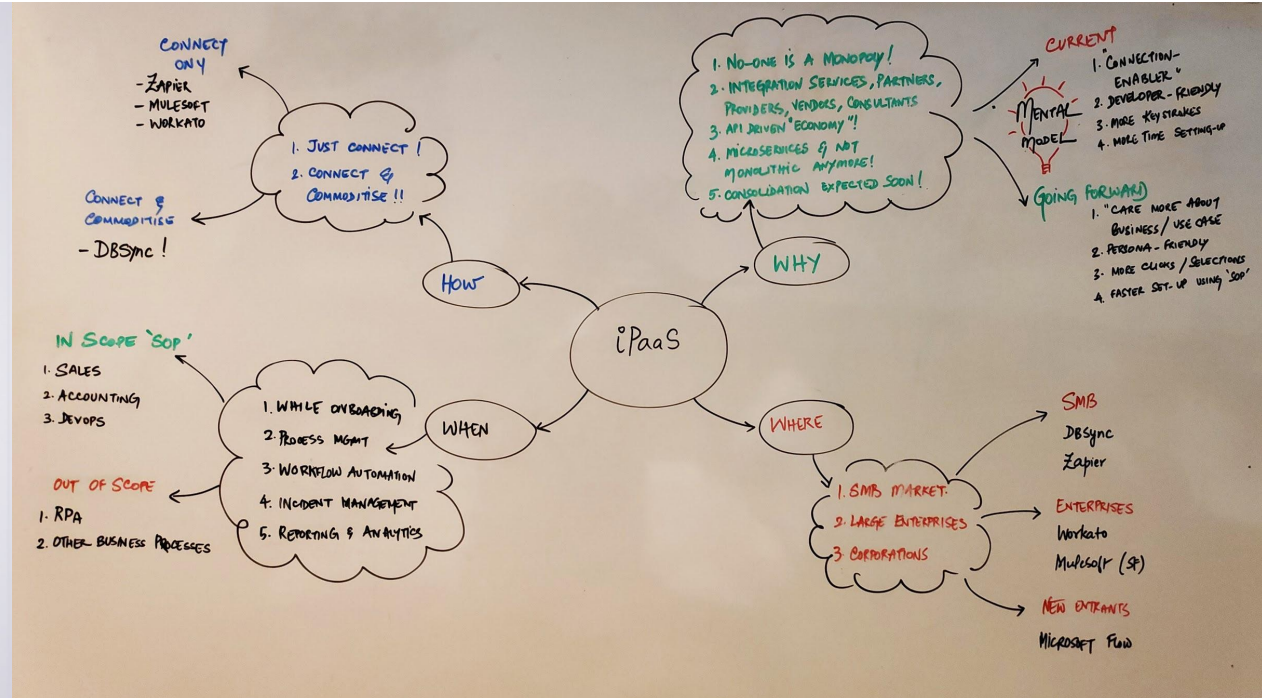
Validate the ideas, get feedback from users and or from stakeholders and quickly iterate to improve and align results



ACCESSIBILITY TESTING

Validate the UI against WCAG principles & Section 508/VPAT & render accessible UI

Problem Space



Competitor Analysis

	Zapier	Workato	Jitterbit	Dell Boomi	Informatica	Microsoft Flow	Asana	Trello	MS Project Plan	ActiveCampaign	MailChimp	PersistIQ
Features							Features			Features		
API	✓	✓	✓	✓	✓	✓	@mentions	✓	✓	✗	✓	✓
Accounting Integration	✓	✓	✓	✗	✗	✓	API	✓	✗	✓	✓	✓
Activity Tracking	✗	✓	✓	✗	✗	✓	Access Control	✓	✗	✓	✓	✗
Ad Hoc Reporting	✗	✓	✗	✗	✗	✗	Activity Dashboard	✓	✓	✓	✓	✗
Application Integration	✓	✓	✓	✗	✗	✓	Activity Management	✗	✓	✗	✓	✗
Automatic Backup	✗	✓	✗	✗	✗	✗	Activity tracking	✓	✓	✓	✓	✗
Balance Sheet	✗	✓	✗	✗	✗	✗	Assignment Management	✓	✗	✓	✓	✗
Bank Reconciliation	✗	✓	✓	✗	✗	✗	Automatic backup	✓	✗	✓	✗	✓
Batch Processing	✗	✓	✓	✗	✗	✓	Automatic Notifications	✓	✗	✓	✓	✓
Business Analysis	✗	✓	✗	✗	✗	✗	Calendar Management	✓	✗	✓	✓	✗
CRM Integration	✓	✓	✓	✗	✗	✓	Calendar Sync With Google	✓	✗	✓	✗	✗
Credit Card Processing	✗	✓	✗	✗	✗	✗	Charting	✓	✓	✓	✓	✗
Data Connectors	✗	✓	✓	✗	✗	✓	Chat	✓	✗	✓	✗	✗
Data Import	✗	✓	✗	✗	✓	✗	Client Management	✓	✗	✓	✓	✗
Data Import/Export	✗	✓	✓	✗	✗	✗	Collaboration Tools	✓	✓	✗	✓	✗
Data Mapping	✗	✓	✓	✗	✗	✓	Collaborative Review	✓	✗	✓	✗	✗
Data Synchronization	✗	✓	✓	✗	✗	✓	Collaborative Workspace	✓	✗	✓	✗	✓
Database Integration	✓	✓	✓	✗	✗	✓	Commenting	✓	✗	✓	✗	✗
Drag & Drop Interface	✗	✓	✓	✓	✗	✓	Communication Management	✓	✗	✓	✓	✗
ERP Integration	✓	✓	✓	✗	✗	✓	Configurable Workflow	✓	✗	✓	✓	✗
E-mail Integration	✓	✓	✓	✓	✗	✓	Custom Charts	✓	✗	✓	✓	✓
Event Tracking	✗	✓	✓	✗	✗	✓	Custom Fields	✓	✗	✓	✓	✗
Help Desk Integration	✗	✓	✓	✗	✗	✓	Customizable Templates	✗	✗	✓	✓	✗
Knowledge Base Management	✗	✓	✓	✓	✗	✗	Data Import/export	✓	✗	✓	✓	✗
Mobile Integration	✗	✓	✓	✓	✗	✓	Data Synchronization	✓	✗	✓	✓	✗
Monitoring	✗	✓	✗	✗	✗	✓	Data Visualization	✓	✗	✓	✓	✗
POS Integration	✓	✓	✓	✗	✗	✗	Deadline Management	✓	✓	✓	✓	✗
Payroll Integration	✓	✓	✓	✗	✗	✗	Document Management	✓	✗	✓	✓	✗
QuickBooks Integration	✗	✓	✓	✓	✗	✗	Document Storage	✓	✓	✓	✓	✗
Real Time Data	✗	✓	✓	✓	✗	✓	Drag & Drop Interface	✓	✓	✓	✓	✗
Real Time Reporting	✗	✗	✓	✓	✗	✗	E-mail Integration	✓	✓	✓	✓	✓
Real Time Updates	✗	✓	✓	✗	✗	✓	E-mail Notifications	✓	✓	✓	✓	✗
SMS Integration	✓	✓	✓	✗	✗	✓	File Management	✓	✓	✓	✓	✗
Sales Integration	✓	✓	✓	✗	✗	✓	Gantt Charts	✗	✗	✓	✓	✓
Social Media Integration	✓	✓	✓	✗	✗	✓	Goal Setting/Tracking	✓	✗	✓	✓	✗
Third Party Integration	✓	✓	✓	✓	✗	✓	Milestone Tracking	✓	✗	✓	✓	✗
User Management	✓	✗	✓	✗	✗	✓	Multiple Projects	✓	✓	✓	✗	✗
Website Integration	✓	✓	✓	✗	✗	✓	Permission Management	✓	✓	✓	✓	✗
eCommerce Integration	✓	✓	✓	✗	✗	✓	Planning Tools	✓	✓	✓	✗	✗

Customer Journey Mapping



Devops

GOAL	INVOLVE	UNDERSTAND	PLAN	EXECUTE	DELIVER	MAINTAIN
	Collaborate with presales team to understand Client's requirement Understand > Relate > Share	Connect with the Client and understand the holistic requirement Interview > Understand > Discuss	Prepare scope document and propose the solution Research > Document > Propose Solution	Brainstorm & implement the solution through iterative process Assign > Provide access > Follow Lean Dev/Testing Process	Successfully deliver the solution committed based on updated SOW Deliver > Take Client Feedback > Improve	Continuous improvement cycle Get Client Req. > Find Loopholes > Modify Process
STEPS						
DOING	<ol style="list-style-type: none"> 1. Accept the meeting 2. Join the meeting 3. Pre-sales gives brief of the client and their requirement 4. Dev-Ops try to relate through past experience 5. Shows some relevant work or example 6. If could <i>not</i> relate 6.1. Take it as challenge and buy some time for research on the same 	<ol style="list-style-type: none"> 1. Pre prepare set of questions to understand from Client 2. Get into the discussion with client over call /through physical meeting depending on demography 3. Listen to the client and try to understand the problem 4. Asks relevant questions to the client 5. Debrief the discussion back to client for clear understanding 6. If both are on same page 6.1. Receives confirmation on understanding If there would have been gap in understanding 7. If there would have been gap in understanding 7.1. Try to discuss more and get the problem statement right 8. Draft a mail of MOM, share across the team and client 9. Get sign on that and proceed to the next stage of planning solution 	<ol style="list-style-type: none"> 1. Do a basic research on best fitted solution 2. Start documenting as SOW for client. SOW doc will have 3. Problem addressed 4. Prospective solution 5. Deliverable timeline 6. Cost structure 7. Relevant past example of similar solutioning 8. Share document with client 9. If client disapproves due to costing /timeline 9.1. Re-research on alternative solution 9.2. Redo the SOW and share back 10. If client do not have idea of solution type 10.1. Take a call, explain the convenience client on the capability 11. If client have idea 11.1. Sign off the scope 11.2. Client approves 11.3. Sign off the scope 	<ol style="list-style-type: none"> 1. Delegate the team with proper role and responsibility 2. Start with the development, start writing the script 3. Send the code to git or any softwareware checkin tool 4. Make a Build 5. If the build is <Successfully> made 5.1. Push the code for test 5.2. Decide on what type of testing is needed (Load test etc) 6. If test <Fails> 6.1. Report the issue 6.2. Send back to development 7. If test is <Successful> 7.1. Get into the next stage that is moving the code to production server 7.2. Code running <Successfully> in production 8. Start deployment 9. <Successfully> deployed 9.1. Deliver the solution 10. Deployment <Failed> 10.1. Back to development 11. Code running <Failed> in production 11.1. Back to development 12. If the build is <Failed> 12.1. Rewrite the code and scripts and push new code again to git or any software checkin tool 	<ol style="list-style-type: none"> 1. Give official mail to the client on Delivery 2. Client Review the system 3. If he is <satisfied > 4. Acknowledge with sign off 5. If he is <Not satisfied > 5.1. Identify the loophole and fix the issue 6. After successfully fixing take delivery sign off 	<ol style="list-style-type: none"> 1. Identify the bottleneck/Loophole 2. Assign among the team 3. Fix the bottleneck 4. Plan to automate the system
THINKING	<ol style="list-style-type: none"> 1. The new opportunity sounds interesting? 2. Do we have the expertisation needed for this project? 3. Do we get enough time to execute it? 4. Do we have enough resource on this? 5. Do we need to procure any new tool/software for this? 	<ol style="list-style-type: none"> 1. Do the client understand the solution? 2. Hope we are not blowing his budget 3. Are we on same page understanding the problem? 	<ol style="list-style-type: none"> 1. Can we convince the client on this solution? 2. Can we convince him on the timeline? 3. Hope client adhere to the signed SOW 4. Hope our solution seems a value for investment 	<ol style="list-style-type: none"> 1. Hope the requirement do not drift much as it is affecting the proposed solution 2. Can the process be done in any more efficient way 3. Hope our stack is modern enough with strong infrastructure? 4. Are we adhering to all security compliances ? 5. Are we providing credential to the right person ? 	<ol style="list-style-type: none"> 1. Hope the security on the clients end has been build strong 2. Hope they do understand the value of the solution 	<ol style="list-style-type: none"> 1. What are the improvement area of this system 2. Can it be optimized more? Are the client facing any issue?
FEELING	Overwhelmed Confident	Anxious Feel of inadequate information Need of more research	Ensure on what to trust Disappointment Optimistic Energetic	Ensure trust Frustration Feeling to give up Self boosting Feeling to call for help	Excited Inquisitive Happy Feel of achievement	Satisfied Feeling of sharing same emotion with client
PAIN POINTS	To get the holistic understanding of the requirement	Sharing the same empathy with the client considering the infrastructue ,budget etc	Continuous changing of the requirement delayed the sign off process and thus delayed the execution and the team needs to replan to customize the present proposed solution	Meeting the deadline with continuous change request	-	-
EMOTIONS						

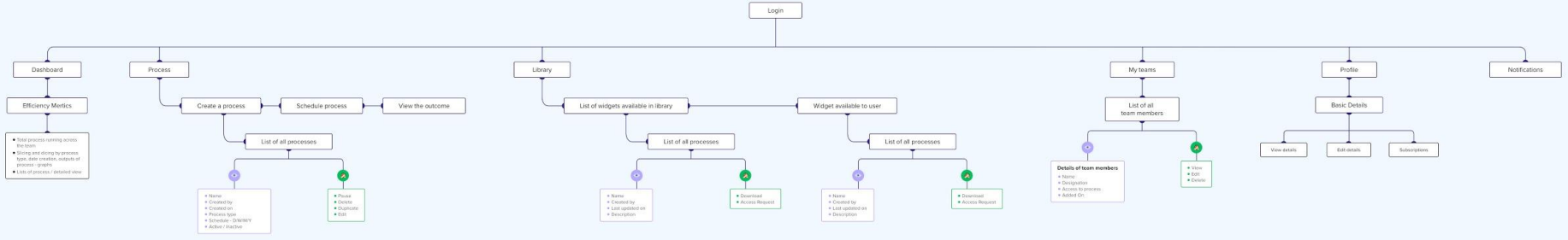
Operations

GOAL	LEAD ANALYSIS		QUERY DISTRIBUTION	REPORT SUBMISSION
STEPS	Analyse the leads on daily basis from the mail box Check > Analyse > Delegate		Distribute queries to different people Check > Co-ordinate > Connect	Submit reports to the CEO Collect > Curate > Submit
SUB STEPS	If New Lead	For not assigned existing leads		
DOING	1. Get notification 2. Directs to the mail box 3. Check duplicate lead If yes -Is the lead assigned to anyone If yes -Check if the assigned person is right person -Check if the assigned person has availability -Check if the assigned person is working If the Lead is duplicate (Lead from same company) -Check which sales person had been working previously on past lead of this company -Is he still working with the company -Is he available -If all verification is positive assign the lead to him If the Person not available -Delegate to new person with availability and bandwidth	1. Search for unassigned leads from the mail box 2. Directs to the mail box 3. Check duplicate lead If yes -Is the lead assigned to anyone If yes -Check if the assigned person is right person -Check if the assigned person has availability -Check if the assigned person is working If the Lead is duplicate (Lead from same company) -Check which sales person had been working previously on past lead of this company -Is he still working with the company -Is he available -If all verification is positive assign the lead to him If the Person not available -Delegate to new person with availability and bandwidth	1. Check the mailbox 2. Look for client invites 3. See the timings 4. Go to the company Calendar 5. Filter <sales> team 6. Check for the specific time If any sales rep available - Set up a meeting - Send him/her a mail about the meeting - Mark the query as <resolved> - Move onto the next query If no sales rep available - Contact the sales team head - Find out an alternative - Fix the meeting - Mark the query as <resolved> - Move onto the next query	1. Collect the number of leads 2. Collect the number of opportunities 3. Collect the number of opportunities closed 4. Input these data into a report 5. Submit the report
THINKING	Is anyone available? Is he/she the right person for this task?	Who was working on this company before? I should assign someone new Is anyone available? Is he/she the right person for this task?	Nobody is available at this time Should i contact the sales team head?	The target has been achieved for this month
FEELING	😊 Joy of Leadership	Self-confident	😬 Urgency	😞 Overwhelmed
PAIN POINTS	Unavailability of a sales rep	Last-minute denial from a sales rep	Lack of co-ordination	Time wasted
EMOTIONS				

Marketing

[illegible]

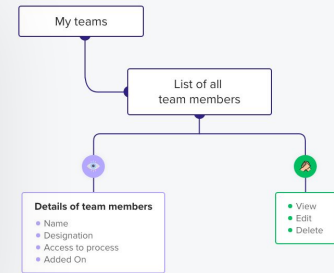
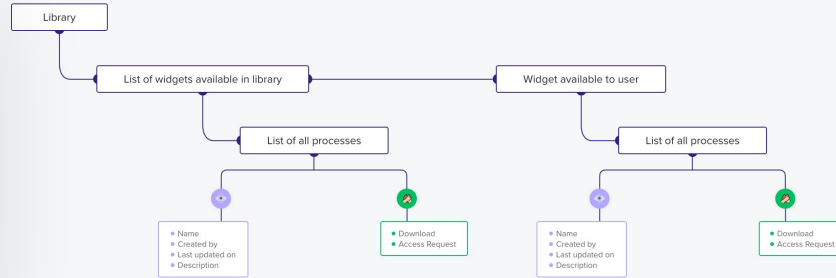
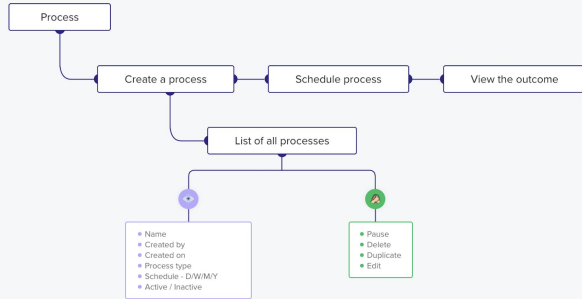
Information Architecture



HUX

Copyright © Hashedin Technologies Pvt Ltd

Hashedin



Wireframes

PROJECT X

DASHBOARD

PROCESS

LIBRARY

MY TEMPLATES

PROFILE

CREATE NEW PROCESS

1 SELECT PROCESS TYPE

SOURCE 1 TYPE

SELECT ACCOUNTS

2 SELECT SOURCE

SOURCE 2 TYPE

3 SELECT ACTION

4 SCHEDULE

ADD SOURCE

BACK

NEXT

PROJECT X

DASHBOARD

PROCESS

LIBRARY

MY TEMPLATES

PROFILE

CREATE NEW PROCESS

1

2

3

4

SOURCE TYPE 1 - WFC BANK ACCOUNT

ACCOUNT 1 SELECT ACTION

ACCOUNT 2 SELECT ACTION

ACCOUNT 3 SELECT ACTION

SOURCE TYPE 2 - SALES FORCE

ACCOUNT 1 SELECT ACTION

BACK

NEXT

Wireframes

PROJECT X

DASHBOARD

PROCESS

LIBRARY

MY TEMPLATES

PROFILE

CREATE NEW PROCESS

1

2

3

4 SCHEDULE

SCHEDULE

☒ DAILY

☐ WEEKLY

☐ MONTHLY

☐ YEARLY

BACK

NEXT/CREATE

PROJECT X

DASHBOARD

PROCESS

LIBRARY

MY TEMPLATES

PROFILE

PROCESS NAME

SOURCE 1 - BANK ACCOUNT

SOURCE 2 CRM

SOURCE 3 ACCOUNTING

SOURCE 3

ACCOUNT X

ACCOUNT X

ACCOUNT

ACCOUNT

ACTIONS

ACTIONS

ACTIONS

CREDIT XII X XII \$ 3400

CREDIT ACCOUNT \$ 3400

CREDIT XII X XII \$ 400

CREDIT ACCOUNT \$ 400

CREDIT XII X XII \$ 19010

CREDIT ACCOUNT \$ 19010

CREDIT XII X XII \$ 2100

NO MATCH

INVALID \$ 2100

CREDIT XII X XII \$ 10

NO MATCH

INVALID \$ 10

CREDIT XII X XII \$ 240

CREDIT ACCOUNT \$ 240

CREDIT XII X XII \$ 501

NO MATCH

INVALID \$ 501

ACTION 1

ACTION 2

ACTION 3

Prototype

Project X

< Run campaign using MailChimp

Table ViewFlow View

ActionsCustomise

+ Add new event

Add event name
Enter the name

Add event date
Add event date

Run frequency
Once

Advance
☐ Segment the contact entering this automation

Select a condition
Is

Select action state

NEXT

Project X

< Run campaign using MailChimp

Table ViewFlow View

Actions

Start this automation when one of these actions takes place

+ Add new trigger

+

End

Action customisation

Add event name
Enter the name

Add event date
Add event date

Run frequency
Once

Advance
☐ Segment the contact entering this automation

Select a condition
Is

Select action state

SAVE

+ Add new event

Project X

Process Name

Table ViewFlow View

Actions

Search action blocks

Flows and Conditions

Sending options

Contacts

Applications

Assign

Step 1

Start this automation when one of these actions takes place

Event is recorded

+ Add new trigger

+

Action customisation

Add event name

Add event date
Select date

Run frequency
Once

Advance
☐ Segment the contact entering this automation

Select a condition
Is

Select action state

SAVE

+ Add new event

Project X

< Run campaign using MailChimp

Table ViewFlow View

Actions

Search...

Flows and Conditions

Sending options

Contacts

Applications

Assign

Start this automation when one of these actions takes place

New event is formed

+ Add new trigger

Assign task to team

Wait for 2 days

+

End

Action customisation

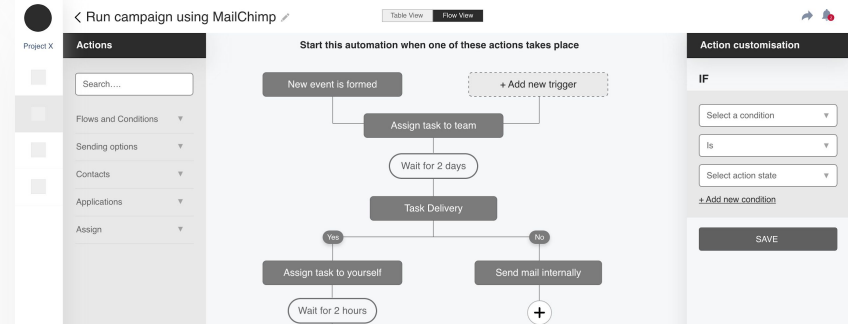
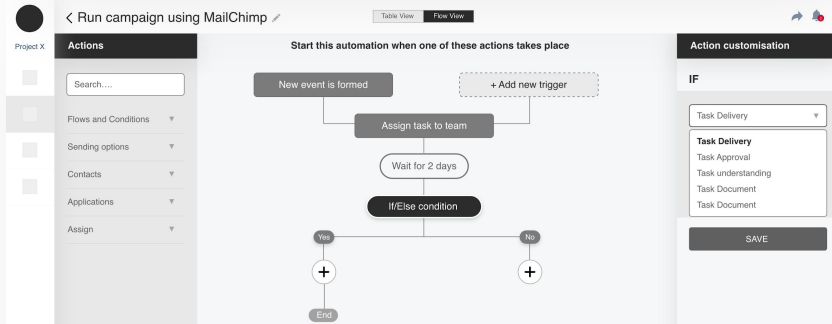
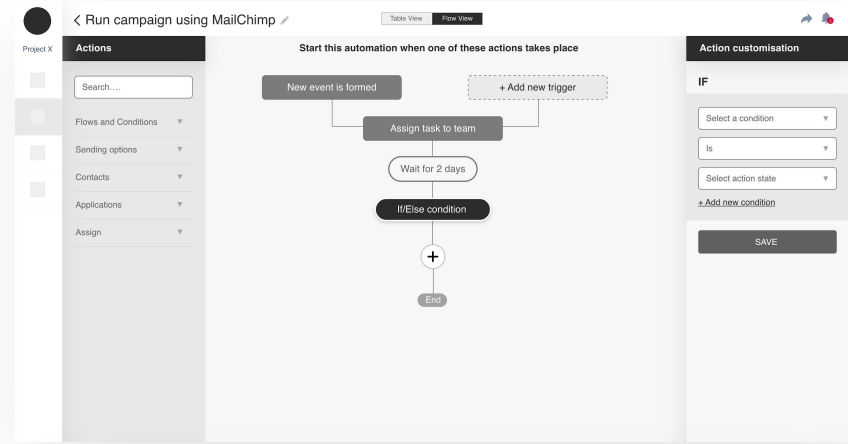
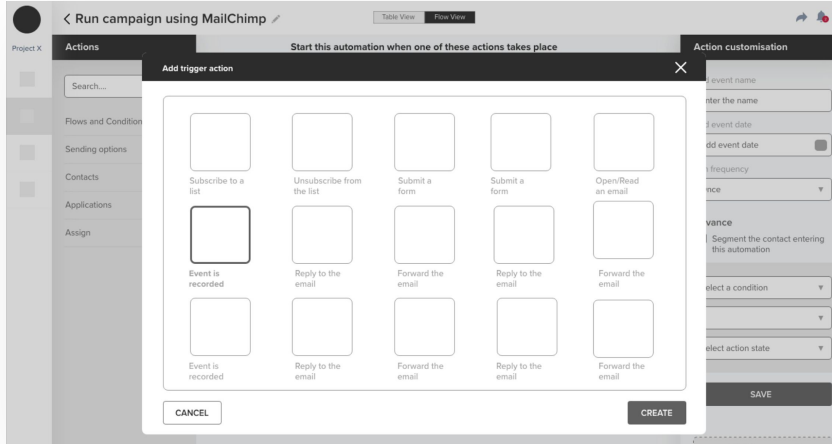
Select the team
Design

Set the timeline
2 days


Description
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do

SAVE

Prototype



Prototype



Project X


DASHBOARD

TASKS

LIBRARY


MY TEAMS

PROFILE

Task Name 

Source 1Bank Account

Account 1 × Account 2 × Account 3 ×

ACTIONS  ▼

CREDIT

23894561209\$ 3400

CREDIT

23894561209\$ 3400

CREDIT

23894561209\$ 3400

CREDIT

23894561209\$ 3400

CREDIT

23894561209\$ 3400

CREDIT

23894561209\$ 3400

CREDIT

23894561209\$ 3400

CREDIT

23894561209\$ 3400

CREDIT

23894561209\$ 3400

CREDIT


23894561209\$ 3400

CREDIT

23894561209\$ 3400

Source 2CRM

Account 1 × Account 2 × Account 3 ×

ACTIONS  ▼

CREDIT

Account\$ 3400

CREDIT

Account\$ 3400

CREDIT

Account\$ 3400

NO MATCH

NO MATCH

CREDIT

Account\$ 3400

NO MATCH

CREDIT

Account\$ 3400

NO MATCH

CREDIT

Account\$ 3400

CREDIT


Account\$ 3400

CREDIT

Account\$ 3400

Source 3Accounting

Account 1 × Account 2 × Account 3 ×

ACTIONS  ▼

INVALID

\$ 2100

INVALID

\$ 2100

INVALID

\$ 2100

INVALID

\$ 2100

ACTION 1

ACTION 2

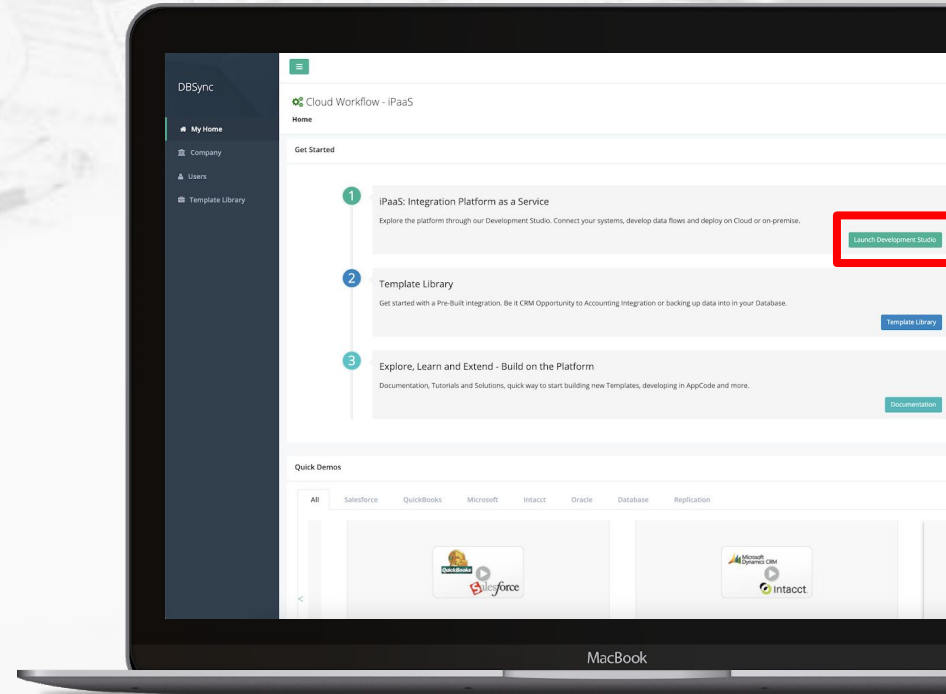
ACTION 3

Get Started Page

The application onboarding is around getting a project done first and it is the first option out there.

Our recommendation:

If the UX is around “creating a project” right away, the easiest option is to start with a demo project itself. Organise the page such that the demos are easily accessible and upfront to start with.



Color Contrast (WCAG 2.0 Accessibility)

The color tones used for buttons and guides fail the Color Contrast Test.

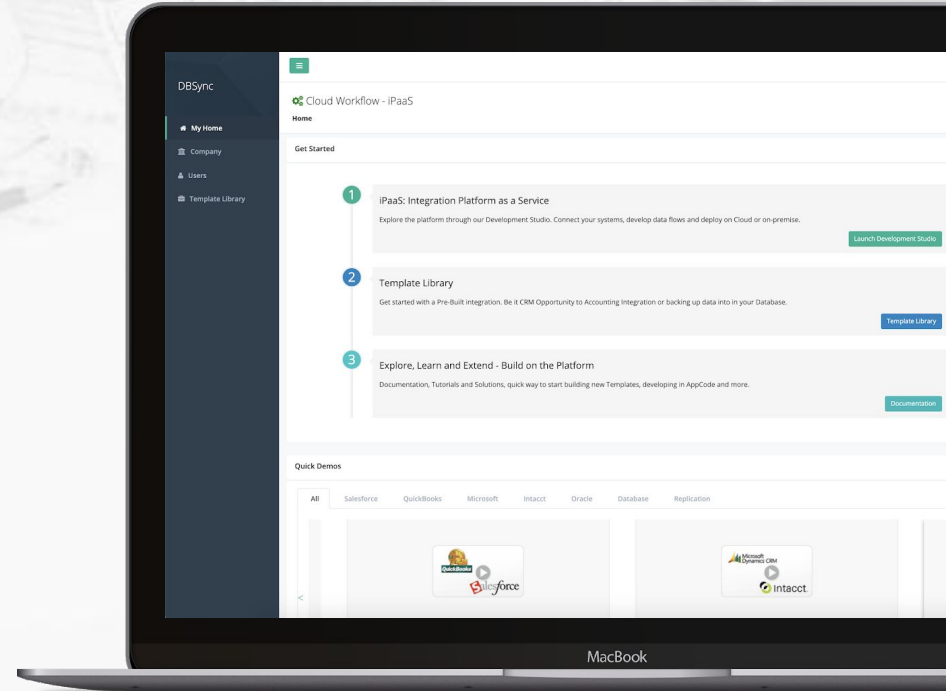
Two side-by-side screenshots of the Colour Contrast Analyser (CCA) tool. The left screenshot shows a teal background (#5EC3C6) with white text (#FFFFFF), resulting in a 2.1:1 contrast ratio and failing WCAG 2.1 tests. The right screenshot shows a blue background (#3F83C1) with white text (#FFFFFF), resulting in a 4:1 contrast ratio and passing WCAG 2.1 tests.

Left Screenshot (Teal Background):

- Foreground colour: #FFFFFF (white)
- Background colour: #5EC3C6
- Contrast ratio: 2.1:1
- WCAG 2.1 results:
 - 1.4.3 Contrast (Minimum) (AA): Fail (regular text), Fail (large text)
 - 1.4.6 Contrast (Enhanced) (AAA): Fail (regular text), Fail (large text)
 - 1.4.11 Non-text Contrast (AA): Fail (UI components and graphical objects)

Right Screenshot (Blue Background):

- Foreground colour: #FFFFFF (white)
- Background colour: #3F83C1
- Contrast ratio: 4:1
- WCAG 2.1 results:
 - 1.4.3 Contrast (Minimum) (AA): Fail (regular text), Pass (large text)
 - 1.4.6 Contrast (Enhanced) (AAA): Fail (regular text), Fail (large text)
 - 1.4.11 Non-text Contrast (AA): Pass (UI components and graphical objects)

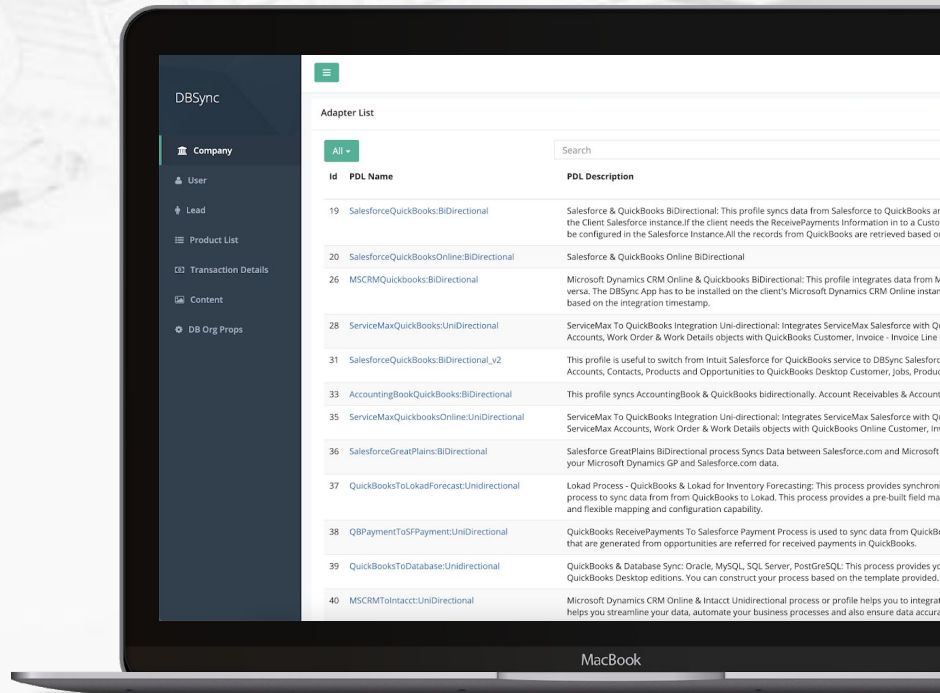
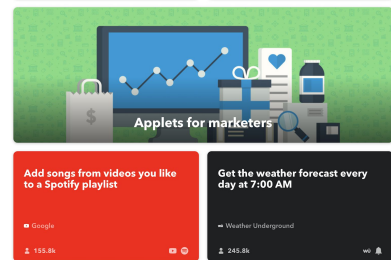


Adapter List

This list looks un-consumable and less user-friendly. Also the information is not presented by its own essence. Also the navigation (on the left) is incorrect.

Our recommendation:

Follow basic rules for information display like hierarchy, grouping, differentiation, progressive disclosure, filtering, etc.

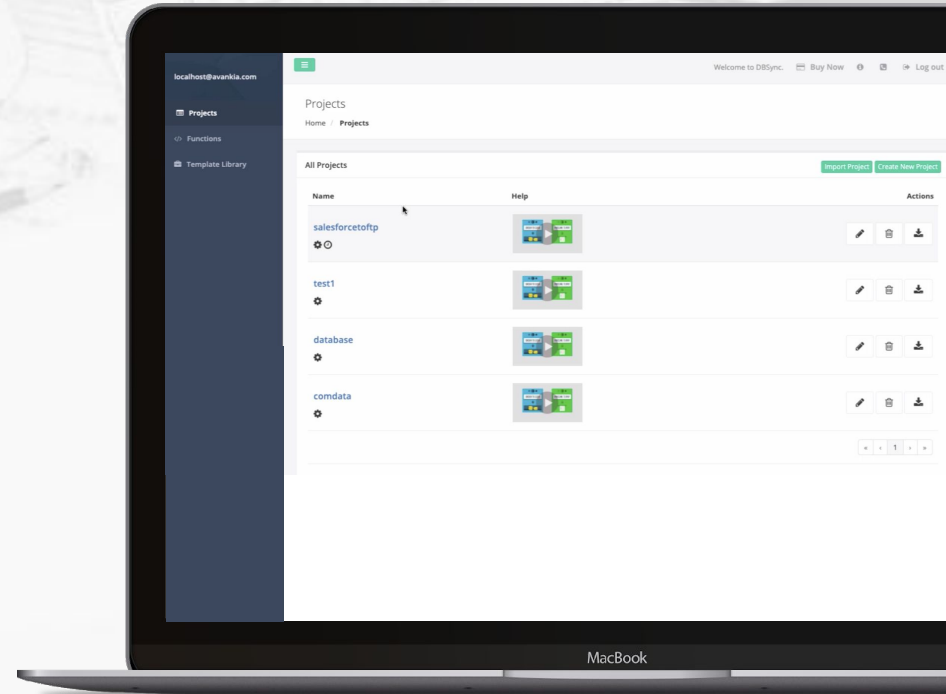
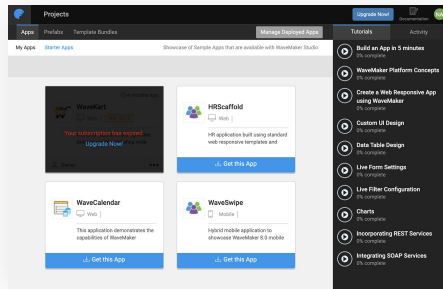


My Projects

The information on this page is minimal and the design does not support it well.

Our recommendation:

Use the card metaphor and pack the project list as a grid of 4x4. Also the Help tutorial should be made context-sensitive (example: [WaveMaker RAD & aPaaS](#))



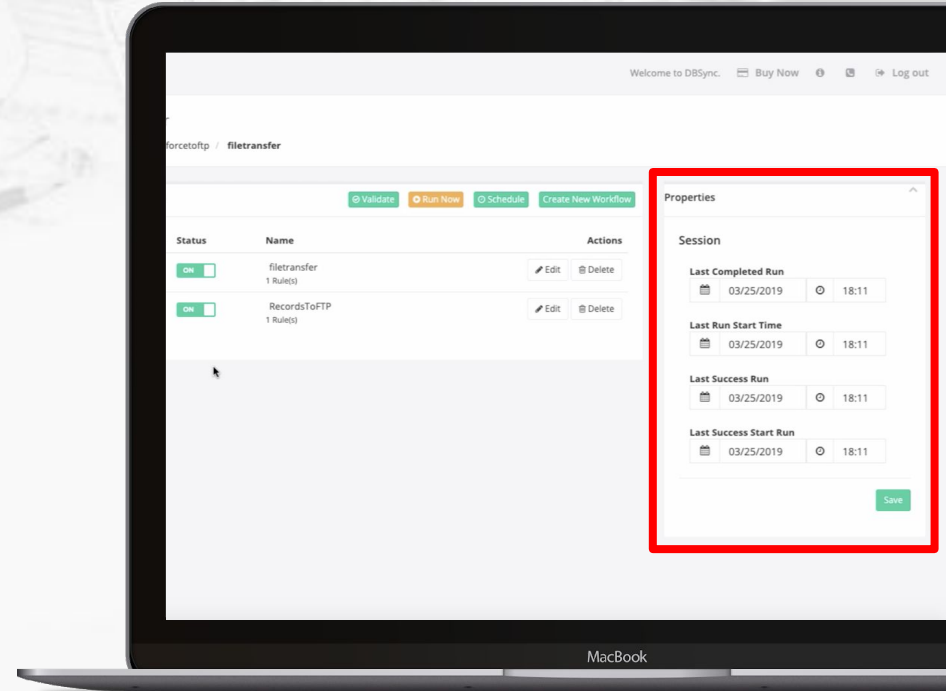
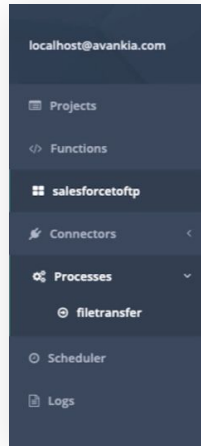
Processes - Detail View

Our recommendation:

The section marked red can be presented as a timeline/chronological order since it is time-bound information.

Also the navigation hierarchy is not followed as shown in the image.

Opening a project should open the section “Projects” in the nav-bar and display all its sub-sections under it.

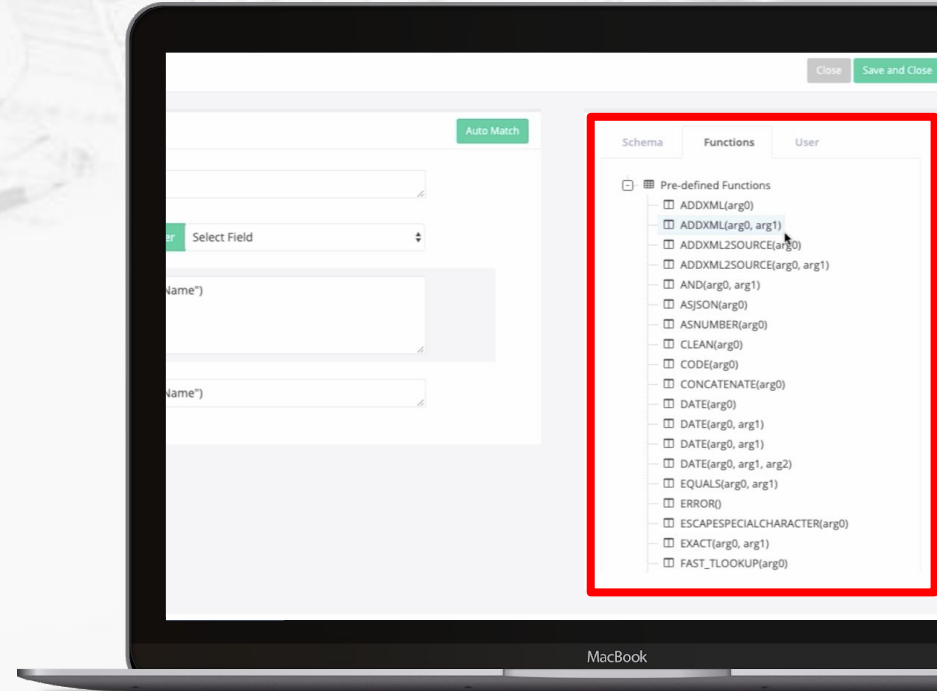
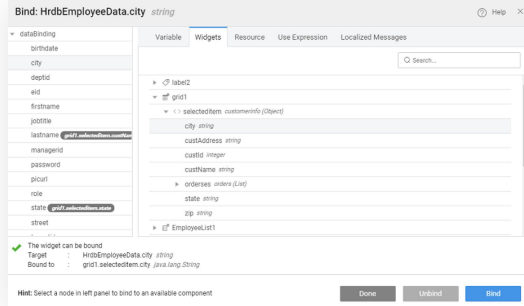


Mapping Page

The user cannot distinguish the functions easily.

Our recommendation:

Follow a different visual treatment for the different sections of functions using colors, italics, indentation, nested trees, etc (example: [WaveMaker RAD & aPaaS](#))



Processes Details Page

The color tones used for action buttons fail the Color Contrast Test. Also the code section can be color-coded which Developers generally see in apps like IntelliJ Idea.

Colour Contrast Analyser (CCA)

Foreground colour: #4C9676

Background colour: #6BCEA4

Sample preview: example text showing contrast

WCAG 2.1 results: Contrast ratio 1.9:1

- 1.4.3 Contrast (Minimum) (AA): Fail (regular text), Fail (large text)
- 1.4.6 Contrast (Enhanced) (AAA): Fail (regular text), Fail (large text)
- 1.4.11 Non-text Contrast (AA): Fail (UI components and graphical objects)

Colour Contrast Analyser (CCA)

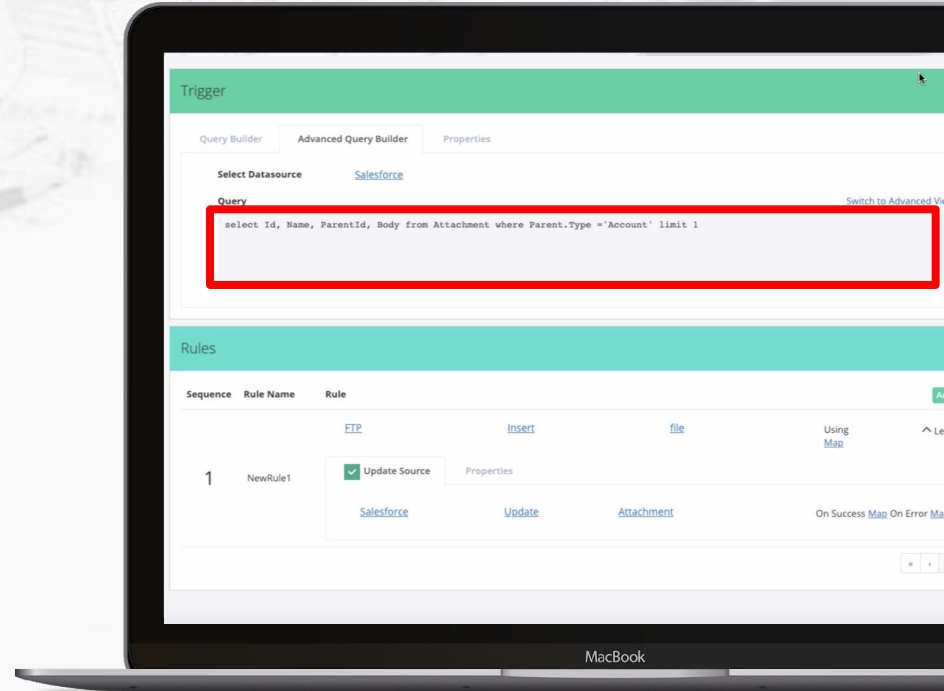
Foreground colour: #CCCDD6

Background colour: #FFFFFF

Sample preview: example text showing contrast

WCAG 2.1 results: Contrast ratio 1.6:1

- 1.4.3 Contrast (Minimum) (AA): Fail (regular text), Fail (large text)
- 1.4.6 Contrast (Enhanced) (AAA): Fail (regular text), Fail (large text)
- 1.4.11 Non-text Contrast (AA): Fail (UI components and graphical objects)



Color Contrast for Details - Table View

The color tones used for action buttons fail the Color Contrast Test.

Colour Contrast Analyser (CCA)

Foreground colour
HEX #FFFEFF

Background colour
HEX #6BCDA4

Sample preview
example text showing contrast

WCAG 2.1 results Contrast ratio 1.9:1

- ▶ 1.4.3 Contrast (Minimum) (AA)
 - ✗ Fail (regular text)
 - ✗ Fail (large text)
- ▶ 1.4.6 Contrast (Enhanced) (AAA)
 - ✗ Fail (regular text)
 - ✗ Fail (large text)
- ▶ 1.4.11 Non-text Contrast (AA)
 - ✗ Fail (UI components and graphical objects)

Colour Contrast Analyser (CCA)

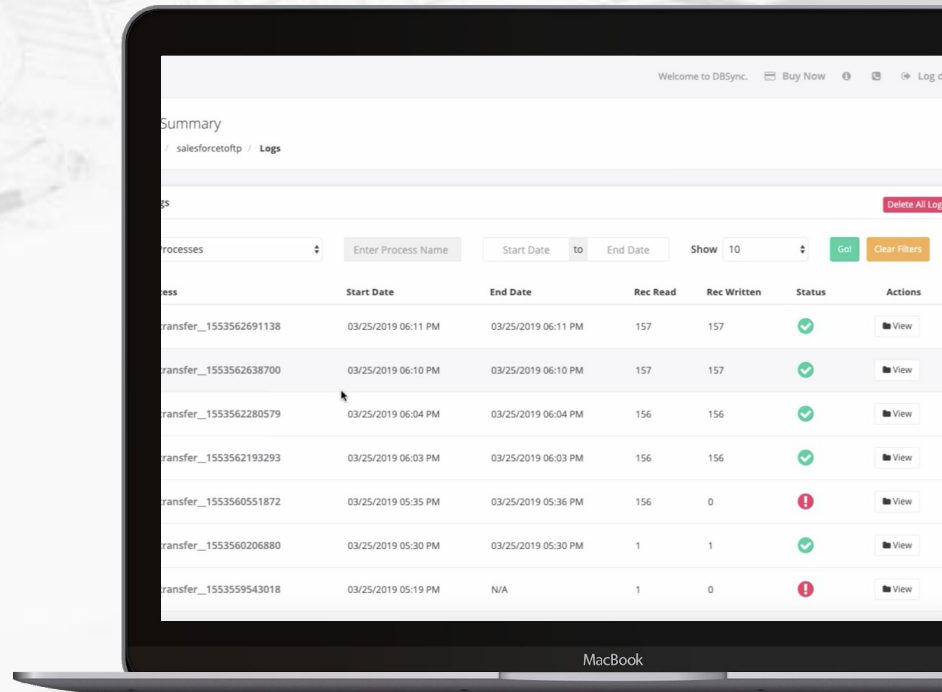
Foreground colour
HEX #FFFEFF

Background colour
HEX #E3B46D

Sample preview
example text showing contrast

WCAG 2.1 results Contrast ratio 1.9:1

- ▶ 1.4.3 Contrast (Minimum) (AA)
 - ✗ Fail (regular text)
 - ✗ Fail (large text)
- ▶ 1.4.6 Contrast (Enhanced) (AAA)
 - ✗ Fail (regular text)
 - ✗ Fail (large text)
- ▶ 1.4.11 Non-text Contrast (AA)
 - ✗ Fail (UI components and graphical objects)

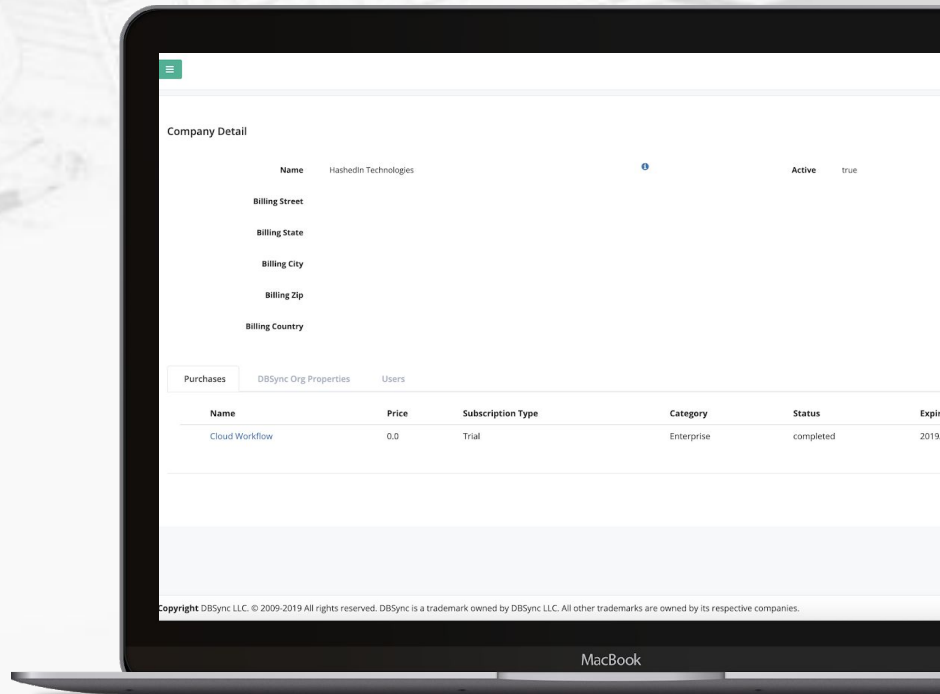


Details Page

The application is designed without any flexibility in displaying the information on the screen. This is applicable for all details screens.

Our recommendation:

Use fluid layouts. Design for zero-data scenarios as well.

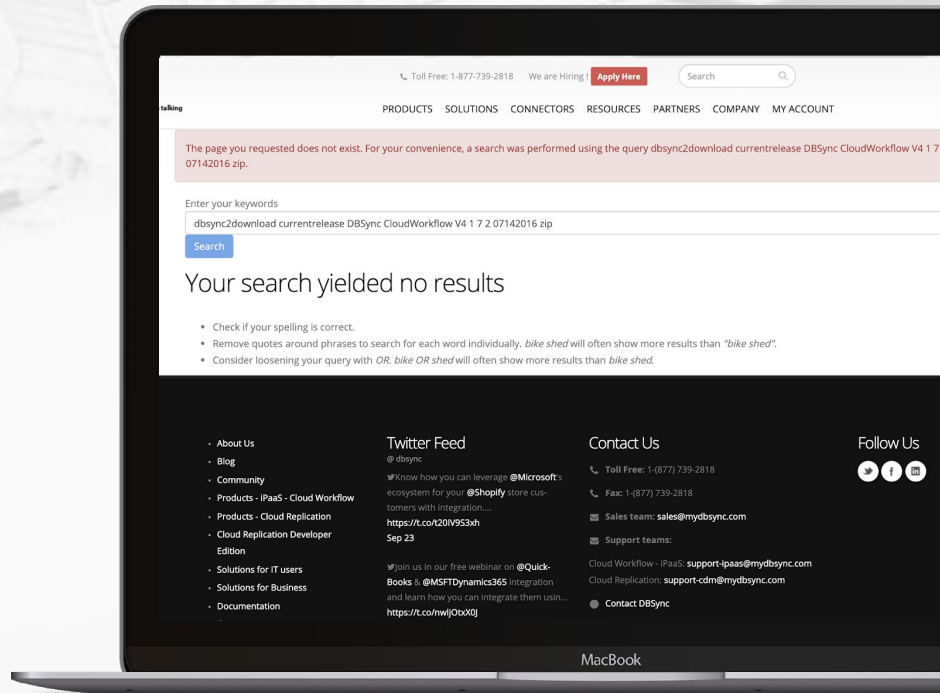


Error Page

Clicking on the “Windows Linux Download” on Get Started page throws an error page.

Our recommendation:

Handle all errors gracefully. Try to prevent an error in the first place.



Thank you