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Consulting projects at Everest Engineering | Nov2022-June2023

Origo Education

Teacher-led elementary Math Curriculum, Supplemental Resources, and Professional Learning

PROBLEM STATEMENT

ORIGO Education is an established Elementary Maths program delivering teacher-led learning experiences through digital and print in the USA, Canada, South East Asia and recently in Australia. The product includes three key business experience - i) a teacher-led and learning experience, ii) program subscriptions and administrations iii) Maths content creation and authoring capability.

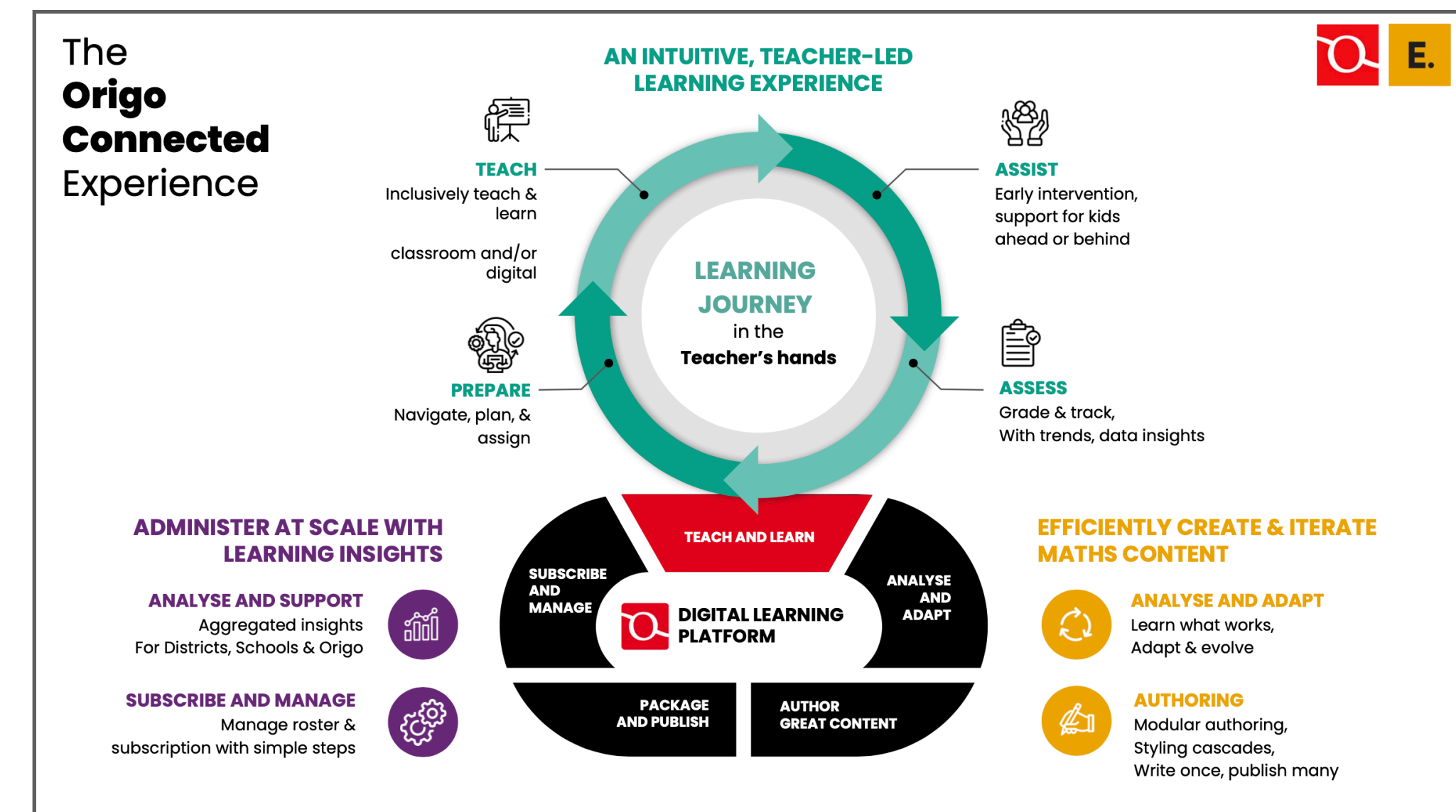
Through the research and discovery it was evident that their products suffered severe usability and technical challenges, impacting their users' productivity and efficiency especially since their transition from print to online classroom during COVID.

MY ROLE & OUTCOME

- As a Lead Product Designer I was responsible to collaborate with the client, I worked in pair with the Delivery Lead to conduct the discovery, ideation up to the build phase.
- Together I planned and facilitated the inception workshops, refined the discovery outcomes that led to the MVP and MSP's ideation and development roadmaps.
- The outcome is proposed as a connected experience platform to cater for the teaching and learning, administration and insights supported by with the modular content authoring capability.

STATUS

Being developed.



DETAILS OF MY SCOPE OF WORK AND CONTRIBUTIONS

(i) pre-inception:

- Analysed the research reports and key business materials and prepared workshop activities for the inception.
- Strategised types of workshops and created the workshop templates.
- Run coordination meetings and communications with teams in Australia, India and the client in the USA for alignment and transparency.

(ii) during inception workshops:

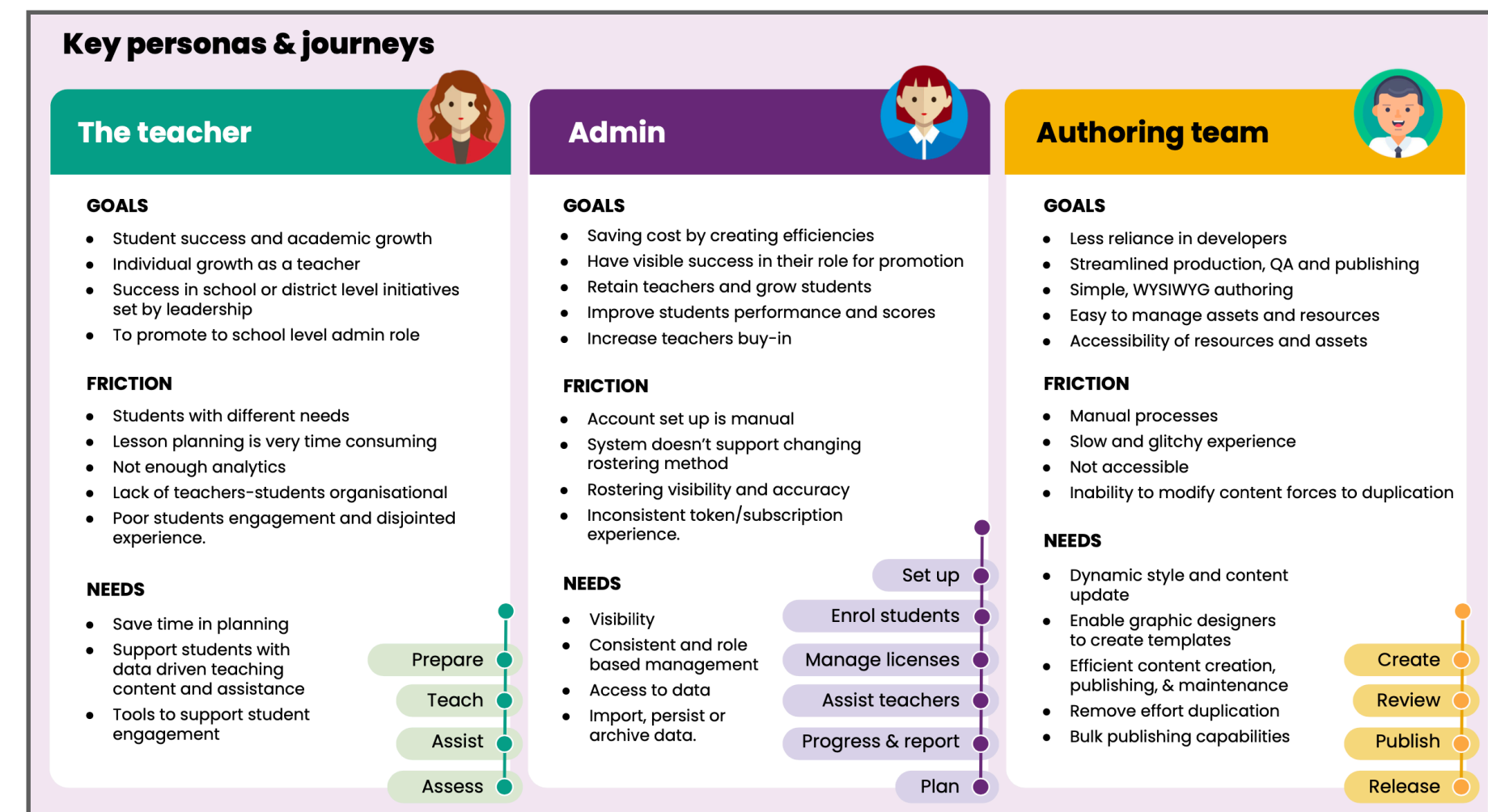
- In collaboration with the clients, I worked with a delivery lead to facilitate the ten days of Lean Inception workshops.
- Defined and established the product and the business visions and goals through product canvas.
- Identified the personas, existing problems from the business, the users and the technology perspectives through mapping the current user journey and experience.
- Helped shape decisions on scopes to design and build the right features for the MVP to MSP.
- I facilitated the HCD-led workshops, defined the key personas (teacher, admins & authoring team), mapped three key user experience journeys, key moments.
- Identified UX/Tech challenges to then scope down the initial conceptual design requirements.
- Run daily walk-throughs with stakeholders for alignment and iterations.
- Collated the workshop outcomes for MVP canvas and final showcase.

(iii) post-inception:

- I designed the conceptual screens for the (i) teacher and student experience, (ii) admins and subscription experience and (iii) the authoring team's modular content creation experience.
- I worked through the final presentation to showcase the business and product visions, goals, value propositions, user journeys, scopes, and product roadmaps.
- I contributed to making decisions on product team formation.

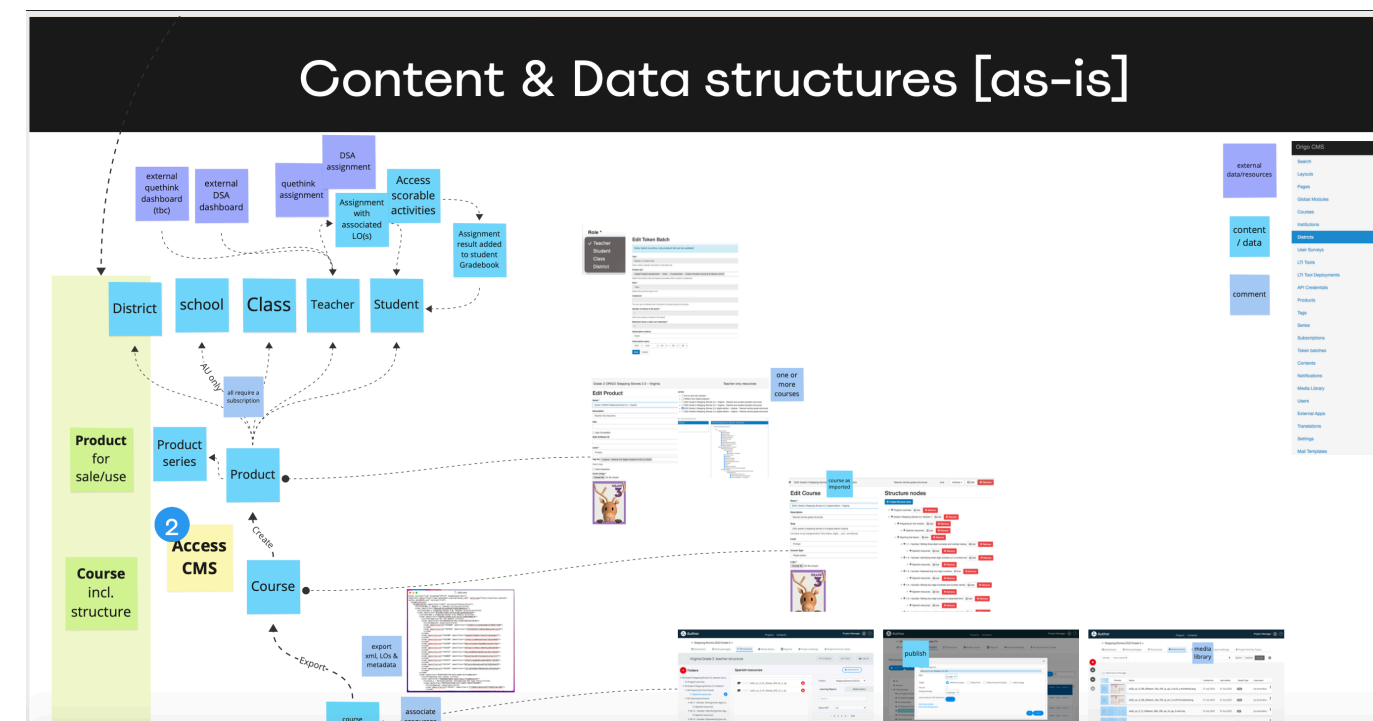
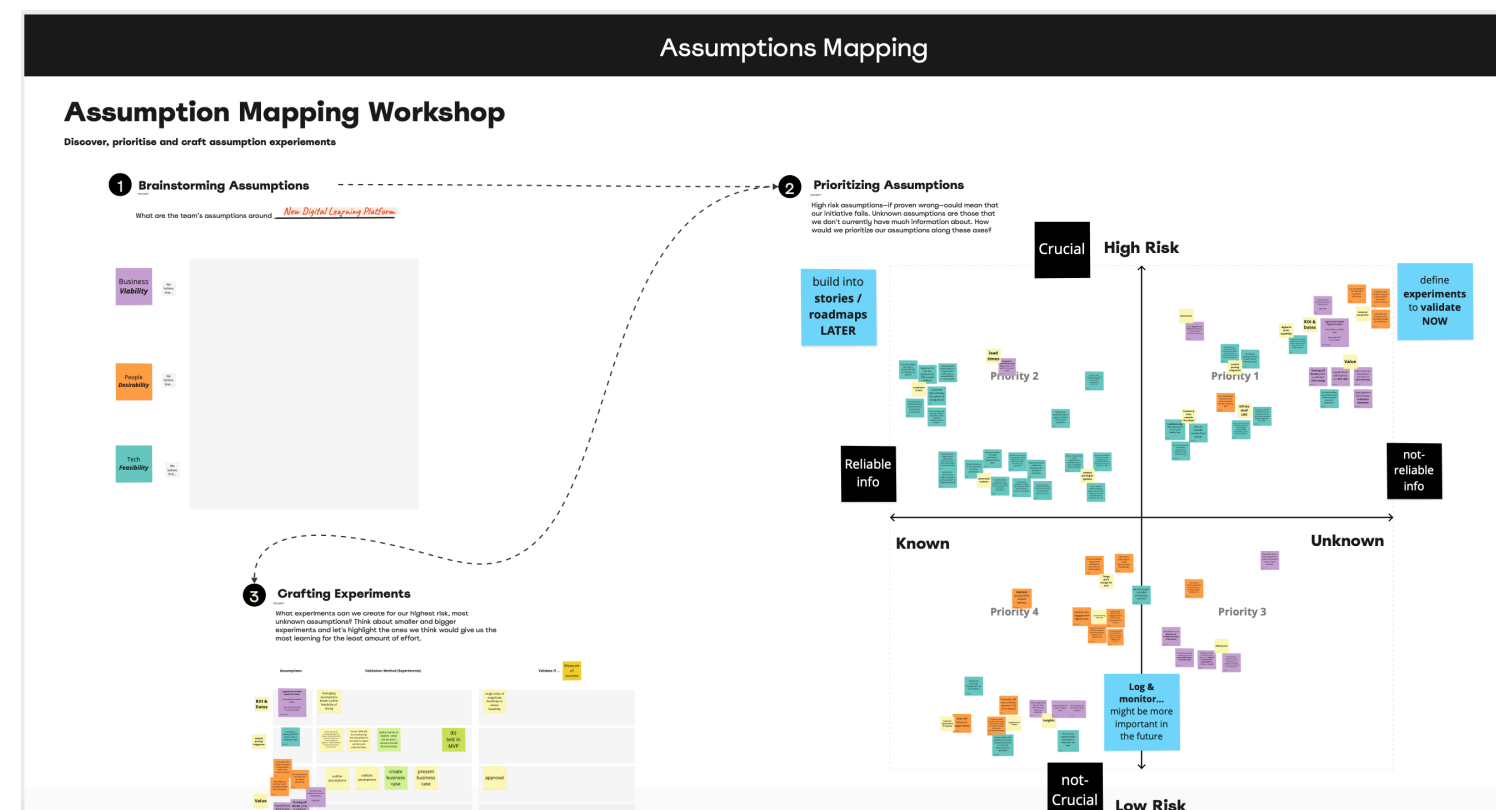
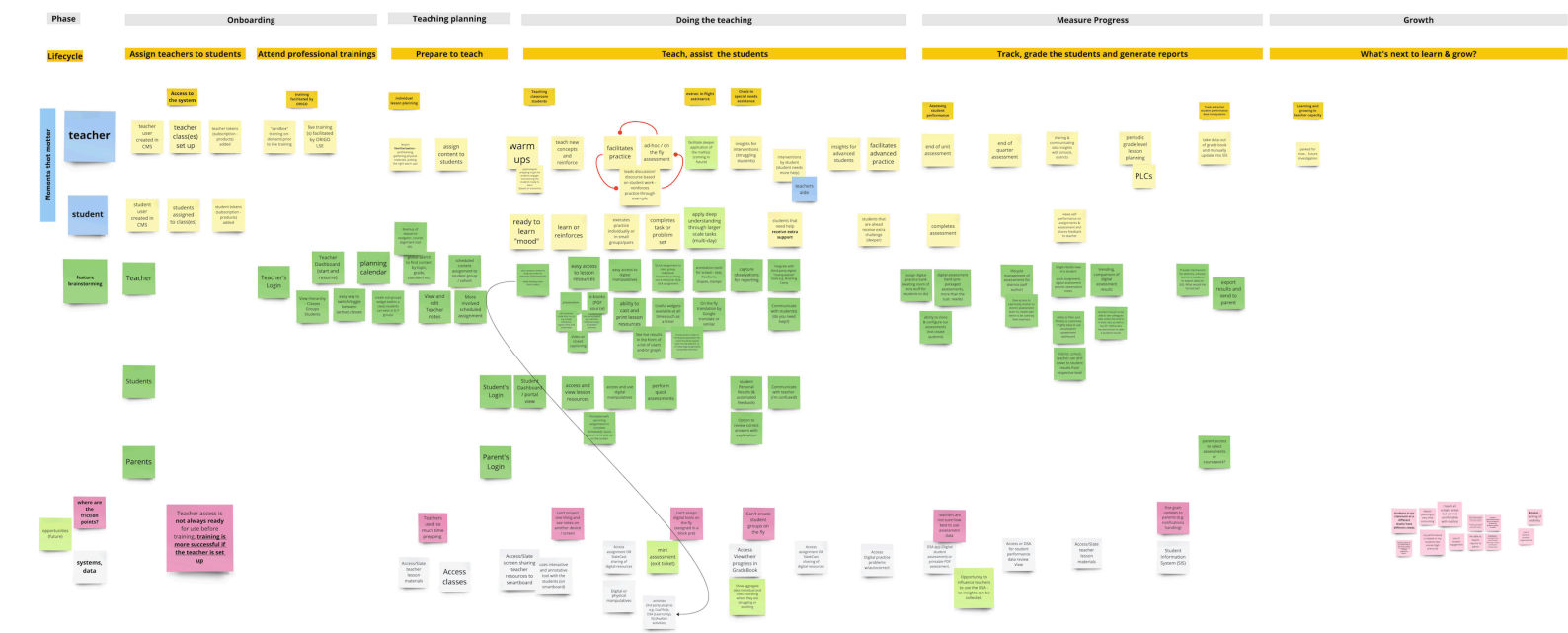
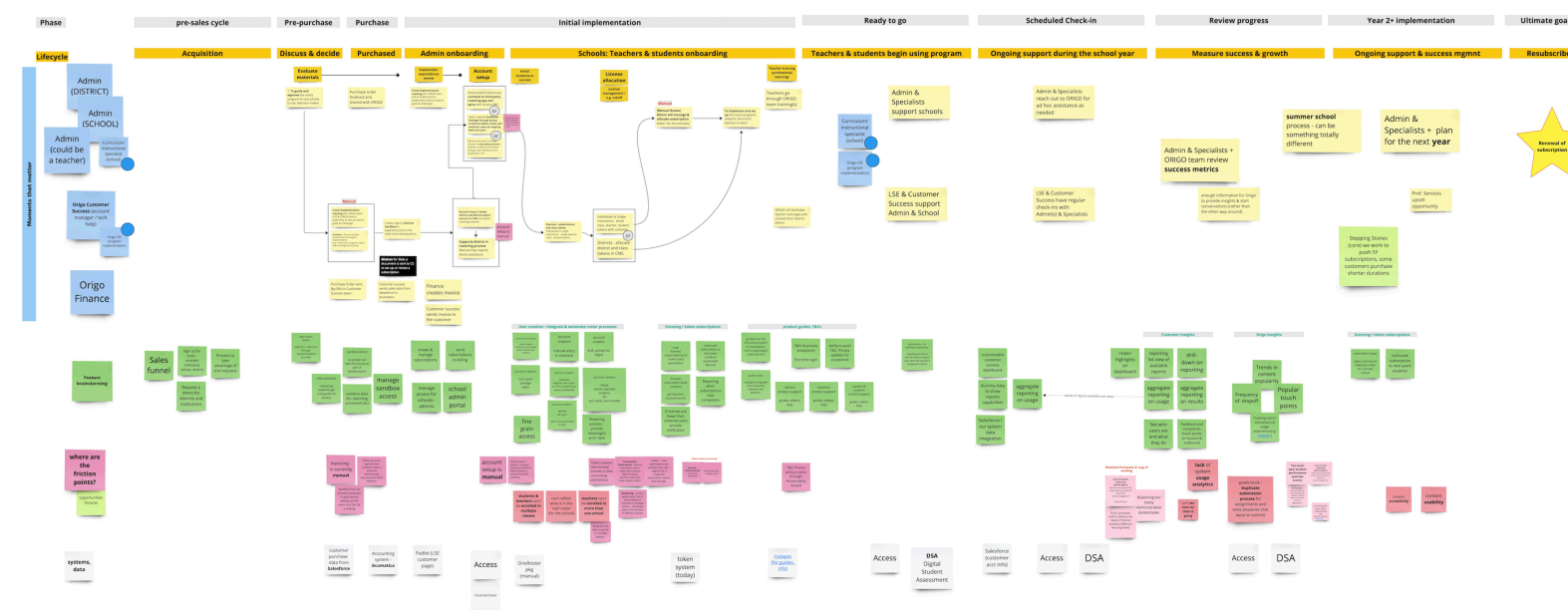
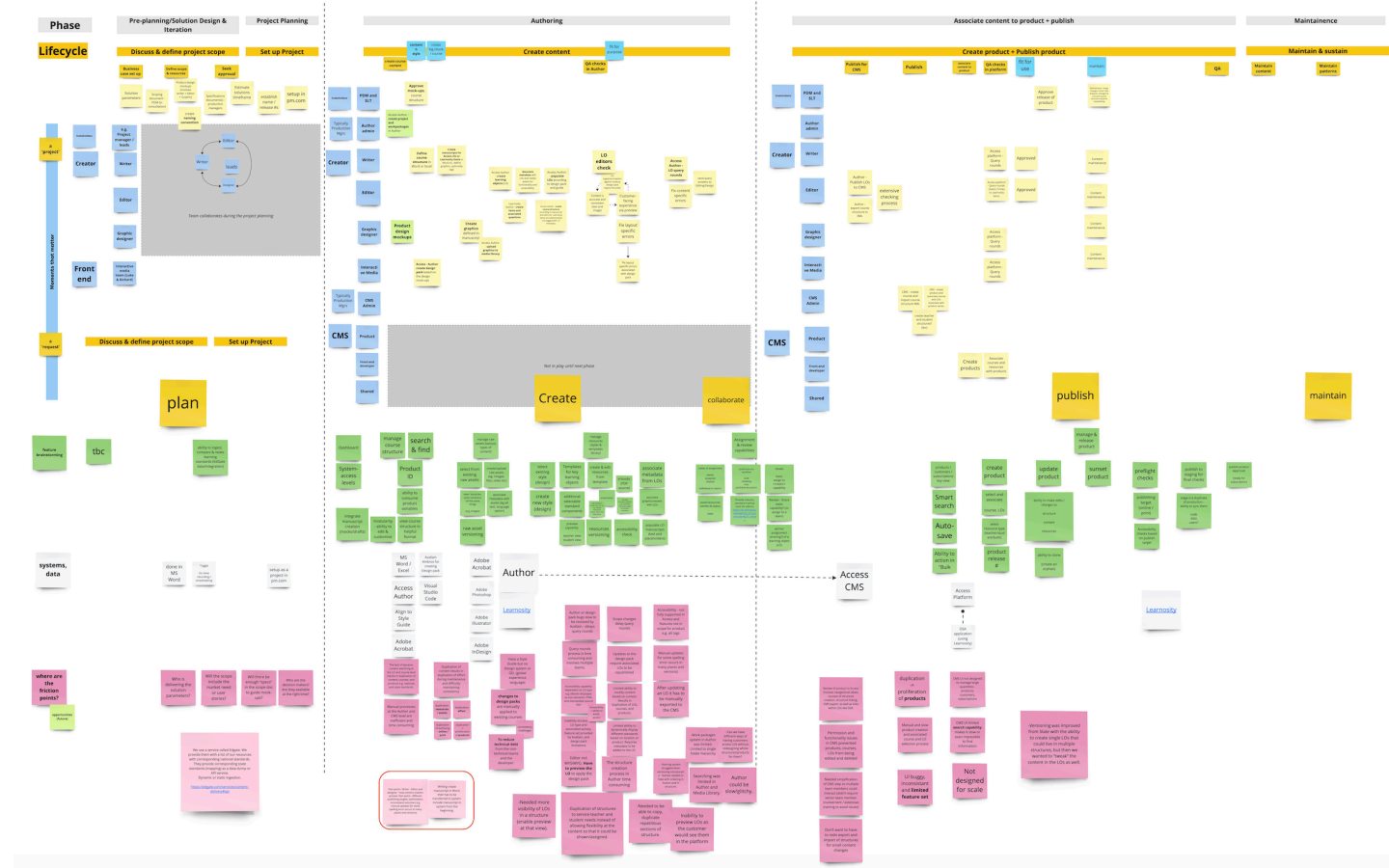
(iv) design and build

- Created design programs and activities.
- Validated the three user journeys and ensured all pain points and needs were captured and iterated to balance out with the additional business needs.
- Performed an expert review on the existing interface.
- Mapped design requirements and scopes, and wrote user stories with the BA.
- Created user flow based on the product architecture and lifecycle.
- Worked with the engineers and recommended the correct UI pattern (design system). Designed the MVP screens based on the discussed scopes ready for development.
- Onboarded the product team and walked them through the outcomes of the product discovery.
- Adhered to the agile cadences and ceremonies with the team.

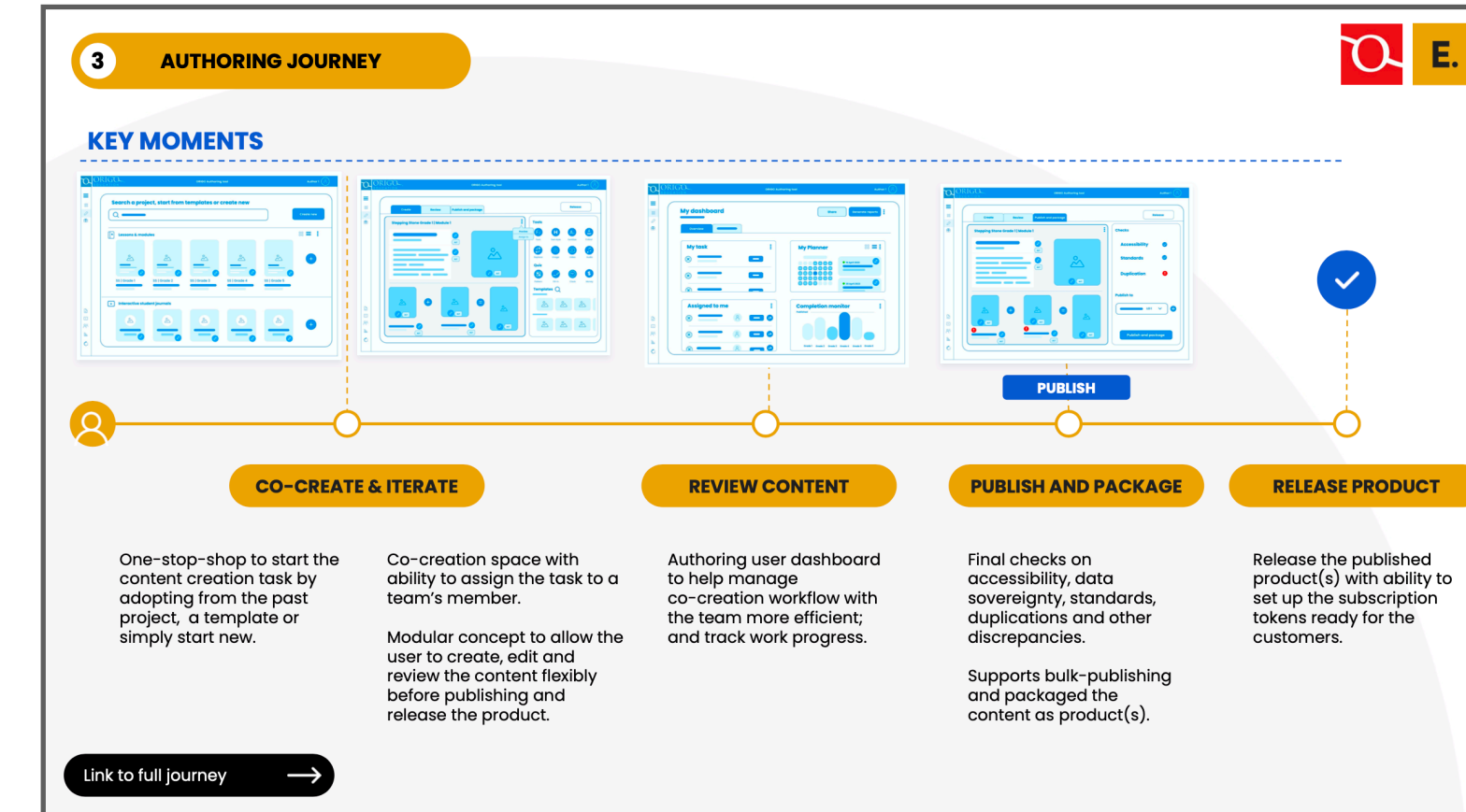
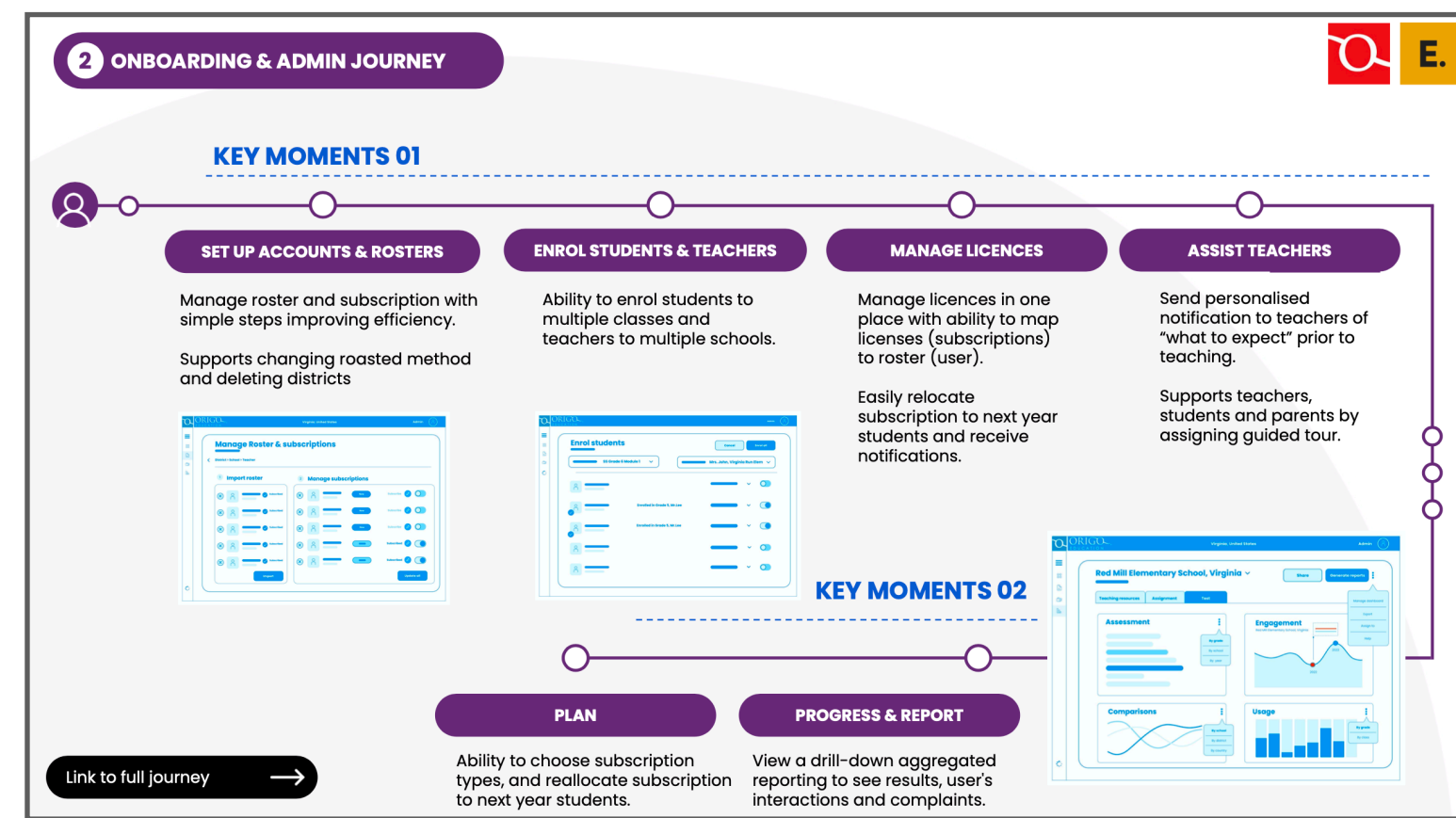
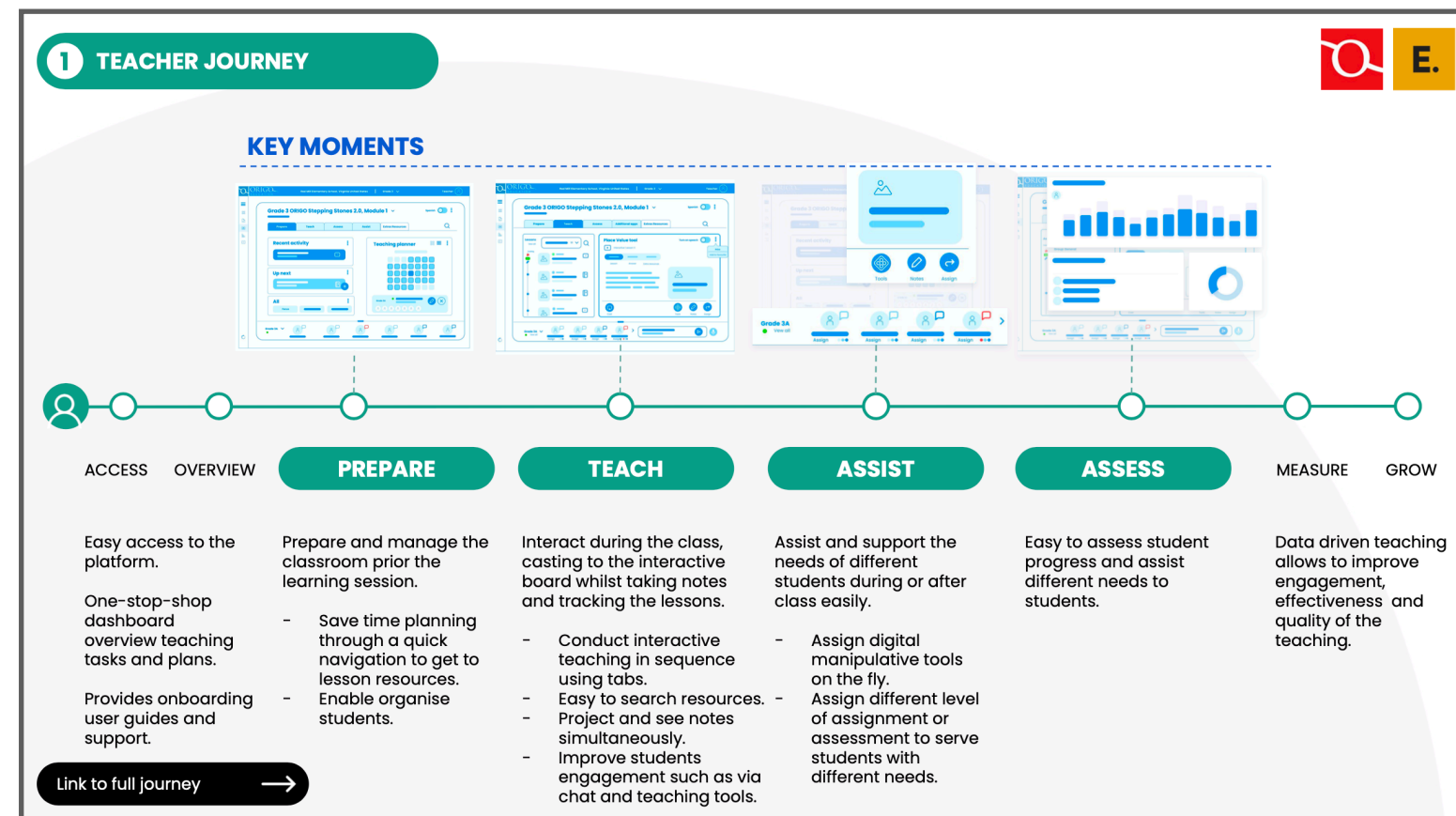
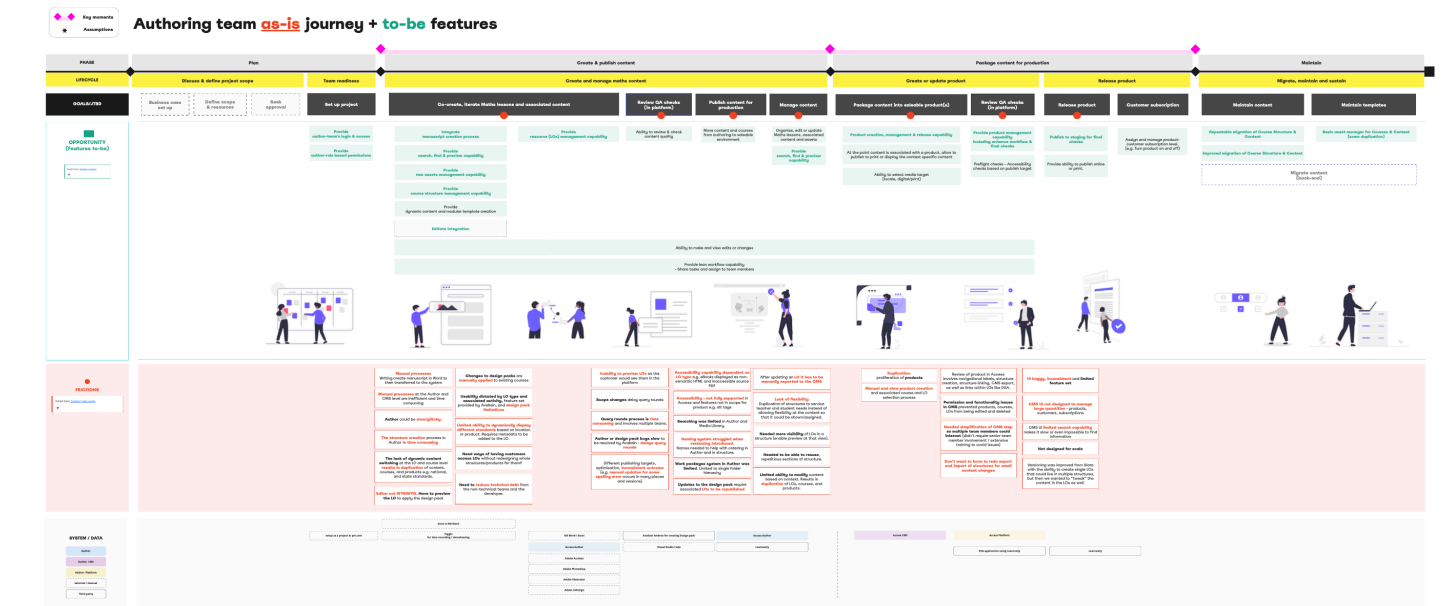
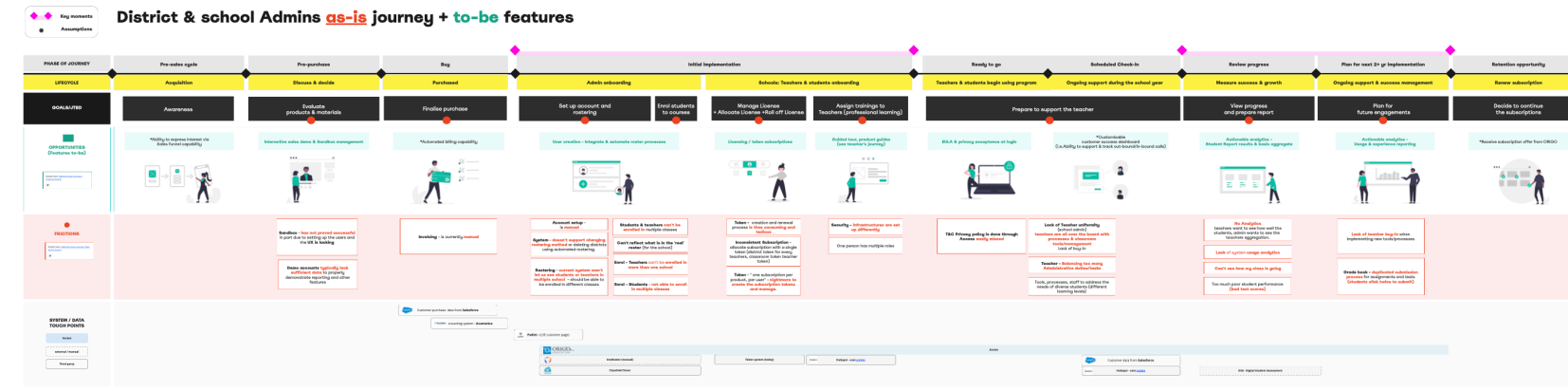
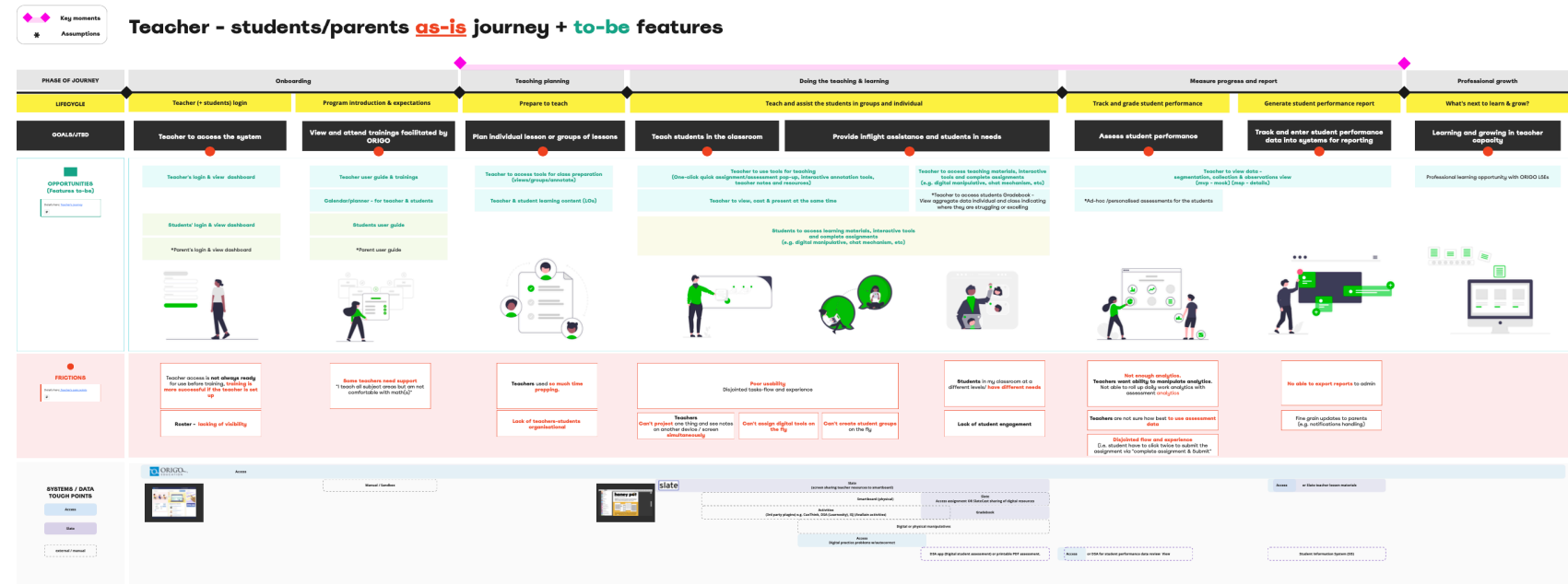


EXAMPLE OF WORKSHOPS & ACTIVITIES

Mapping persona and user journeys, assumption mapping, content and data, future heaven or hell.



EXAMPLE OF A DETAILED USER JOURNEY VS SUMMARISED USER JOURNEY FOR PROPOSAL PRESENTATION FEATURING KEY MOMENTS



IDEATION: EXAMPLE OF CONCEPTS FOR PRESENTATION

TEACHER TEACH CONCEPTUAL EXPERIENCE

The screenshot shows the 'TEACHER TEACH' interface. At the top, it displays 'Red Mill Elementary School, Virginia United States' and 'Grade 3'. The main content area is titled 'Grade 3 ORIGO Stepping Stones 2.0, Module 1' and includes tabs for 'Prepare', 'Teach', 'Assess', 'Additional apps', and 'Extras Resources'. A 'Place Value tool' is prominently featured, with options to 'Turn on speech' and 'Print'. A sidebar on the left shows a list of lessons with 'Assign' buttons. A bottom navigation bar includes 'Grade 3A' and 'View all' options.

Annotations:

- Change language to Spanish.
- Assign classroom to different teacher (when required).
- Turn on speech - to support "accessibility requirement".
- Print and add lesson to teacher's favourite folder.
- Ability to cast to the interactive board / any device.
- Assign digital manipulative and other learning assistance tools.
- Add teacher notes.
- Assign task, assignment, or assessment.
- View student groups within the same classroom.
- Ability to assign assignments, assessment to serve students with different needs.
- Chat to assist and increase engagement with the students.
- Voice chat to support "accessibility requirement".
- Track my teaching durations, notes, communication and assistance to the students. (Collapsible panel).
- Teach by module and easily search for the related lessons.

ADMIN PROGRESS & REPORT CONCEPTUAL EXPERIENCE

The screenshot shows the 'ADMIN PROGRESS & REPORT' interface for 'Red Mill Elementary School, Virginia'. It features a 'Main menu' on the left with options for 'Dashboard', 'Roster and subscription', 'Enrollment', and 'Progress and report'. The main area displays 'Teaching resources', 'Assignment', and 'Test' tabs. Key widgets include 'Assessment', 'Engagement' (with a line chart), 'Comparisons', and 'Usage' (with a bar chart). A 'Generate reports' button is visible at the top right.

Annotations:

- Ability to view the analytics by schools within the district.
- Quick share function.
- Ability to generate report based on needs.
- Additional capability:
 - Manage and personalise the analytic dashboard based on needs to ensure that the data can be shared to tailor to the teaching content/context.
 - Export dashboard as PDF or image.
 - Assign to team members.
 - Quick access to support page.
- Each data widget can be drill up or down to specific attributes.
 - District
 - Schools
 - Classrooms
 - Grades

AUTHOR PUBLISH & PACK CONCEPTUAL EXPERIENCE

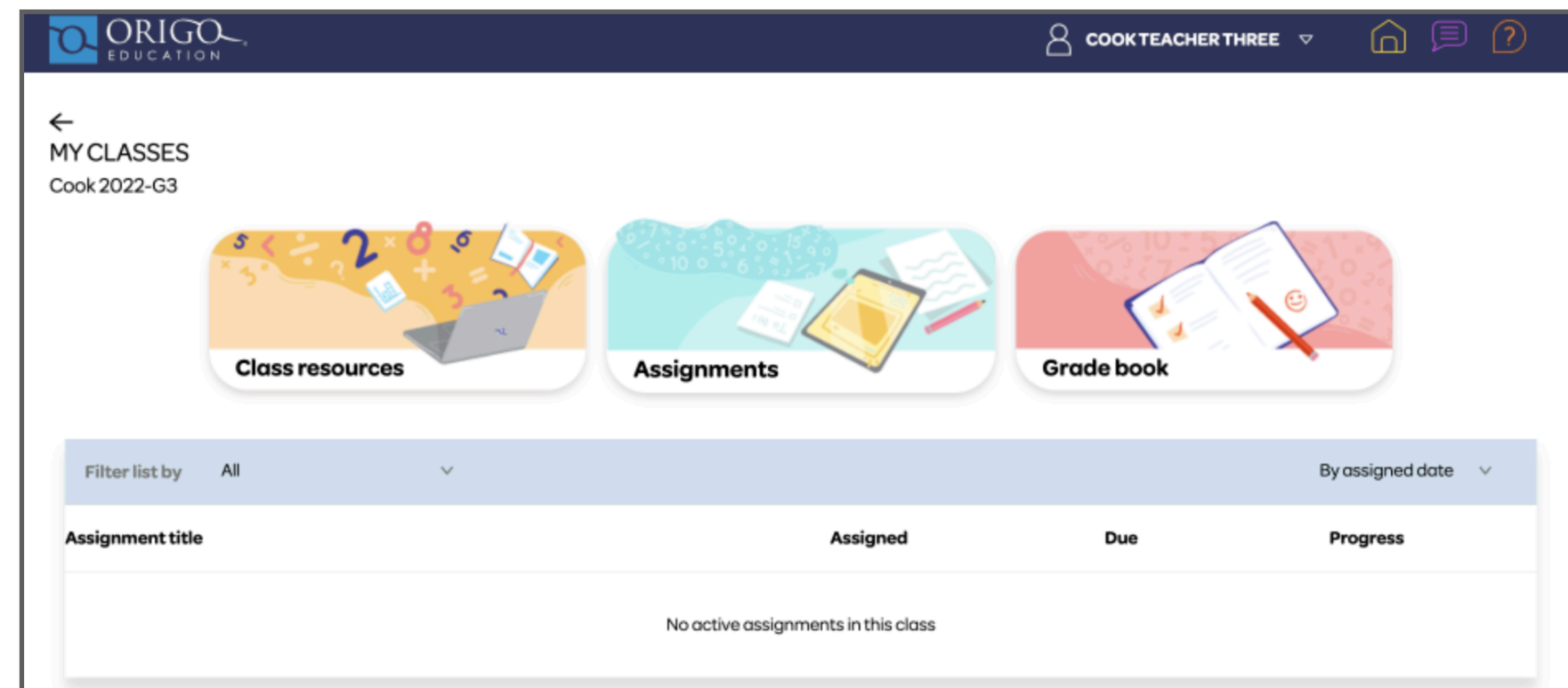
The screenshot shows the 'AUTHOR PUBLISH & PACK' interface for 'ORIGO Authoring tool'. It includes a 'Main menu' on the left with options for 'Create', 'Review', 'Publish and package', and 'Release'. The main area displays 'Stepping Stone Grade 1 | Module 1' with a 'Publish and package' button. A 'Checks' panel on the right lists 'Accessibility', 'Standards', 'Duplication', and 'Sovereignty' with status indicators. A 'Publish to' dropdown is set to 'LO1'.

Annotations:

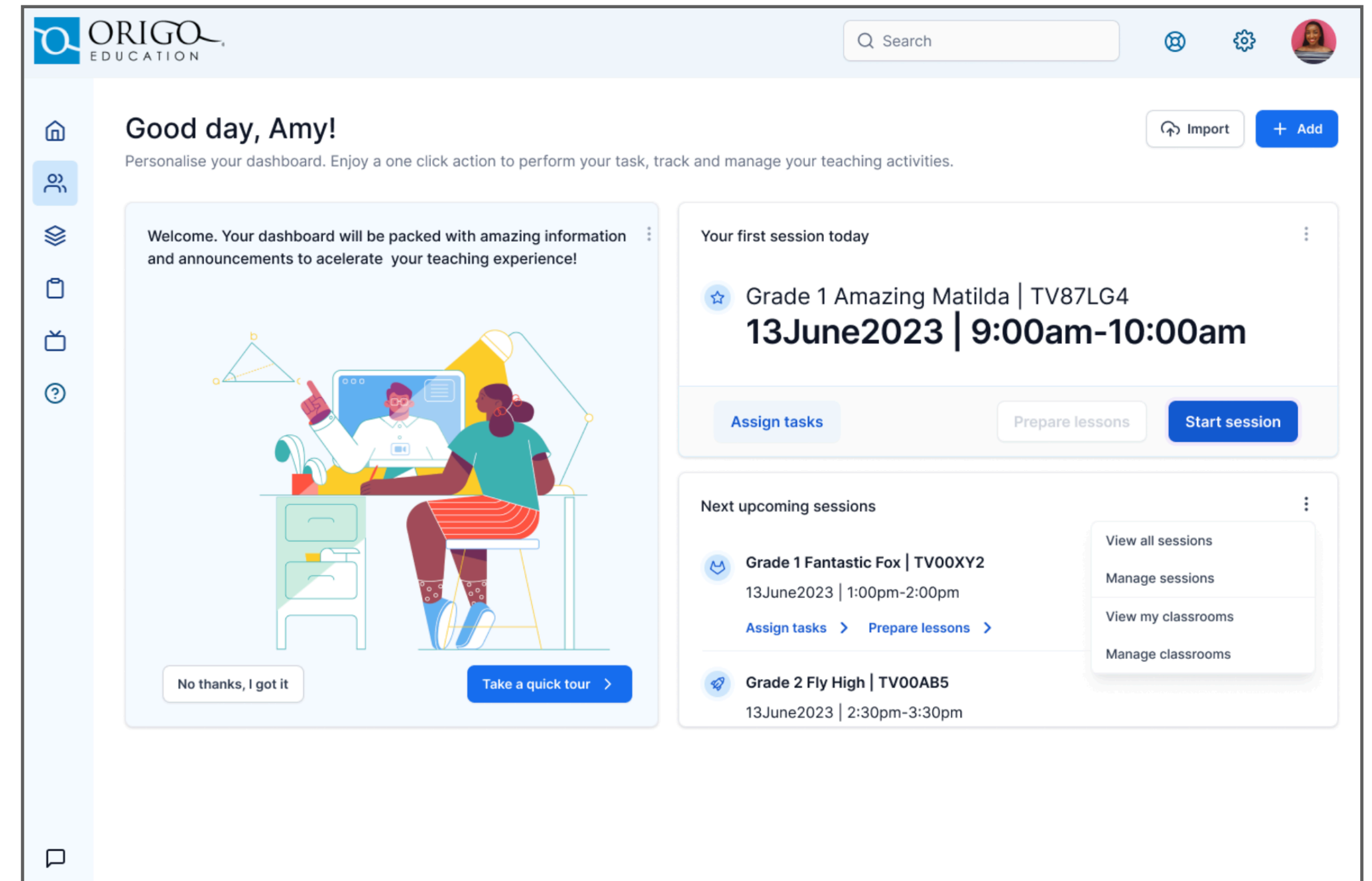
- Check the content discrepancies.
- Finalise and package the product.
- Select the target to publish the product.
- Once reviewed, the draft of content will undergo several requirements checks.
- Ability to see the discrepancy before publish and package for quality and accuracy purposes.

DESIGN ITERATION EXAMPLES FOR BUILD: TEACHING EXPERIENCE

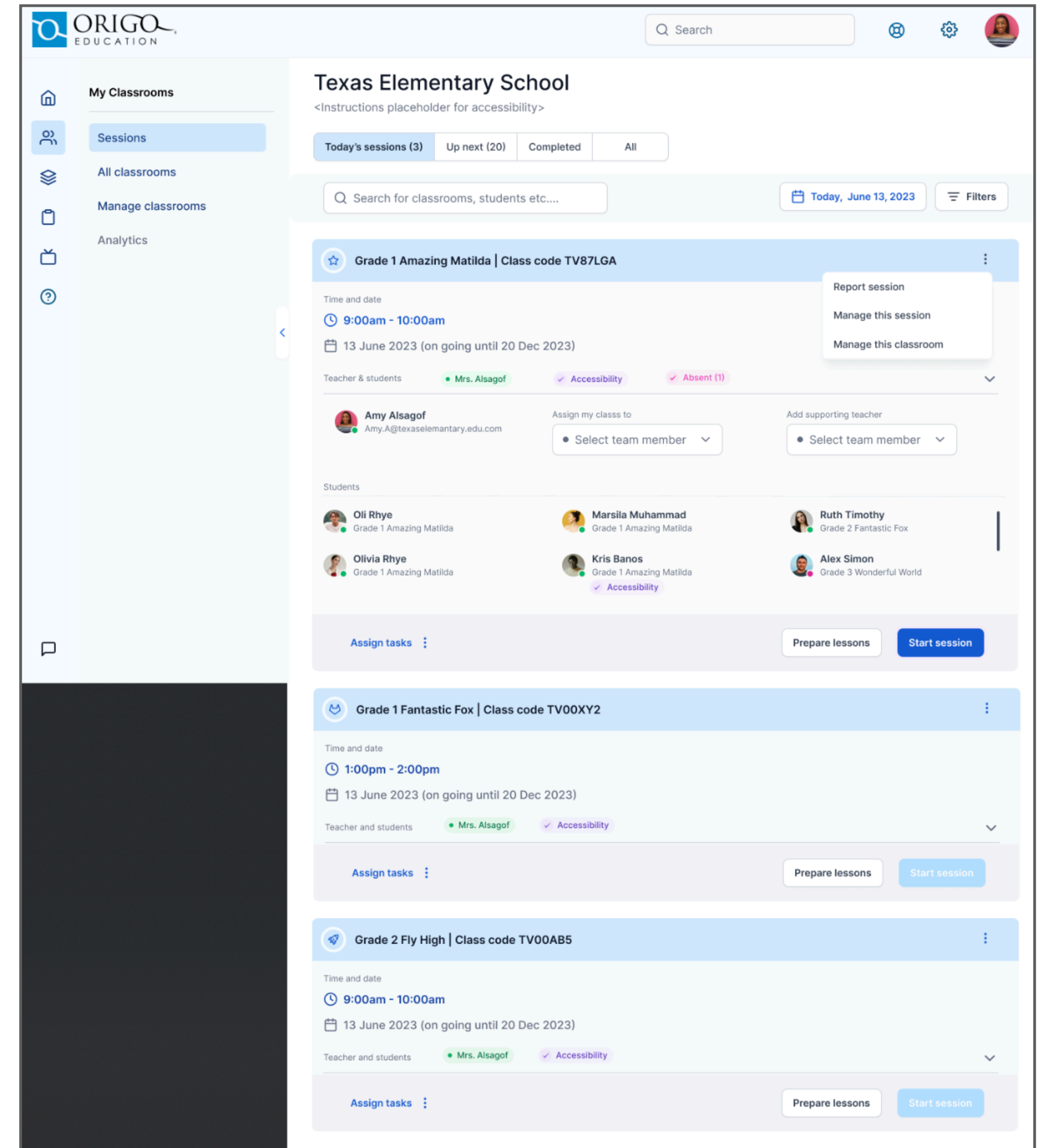
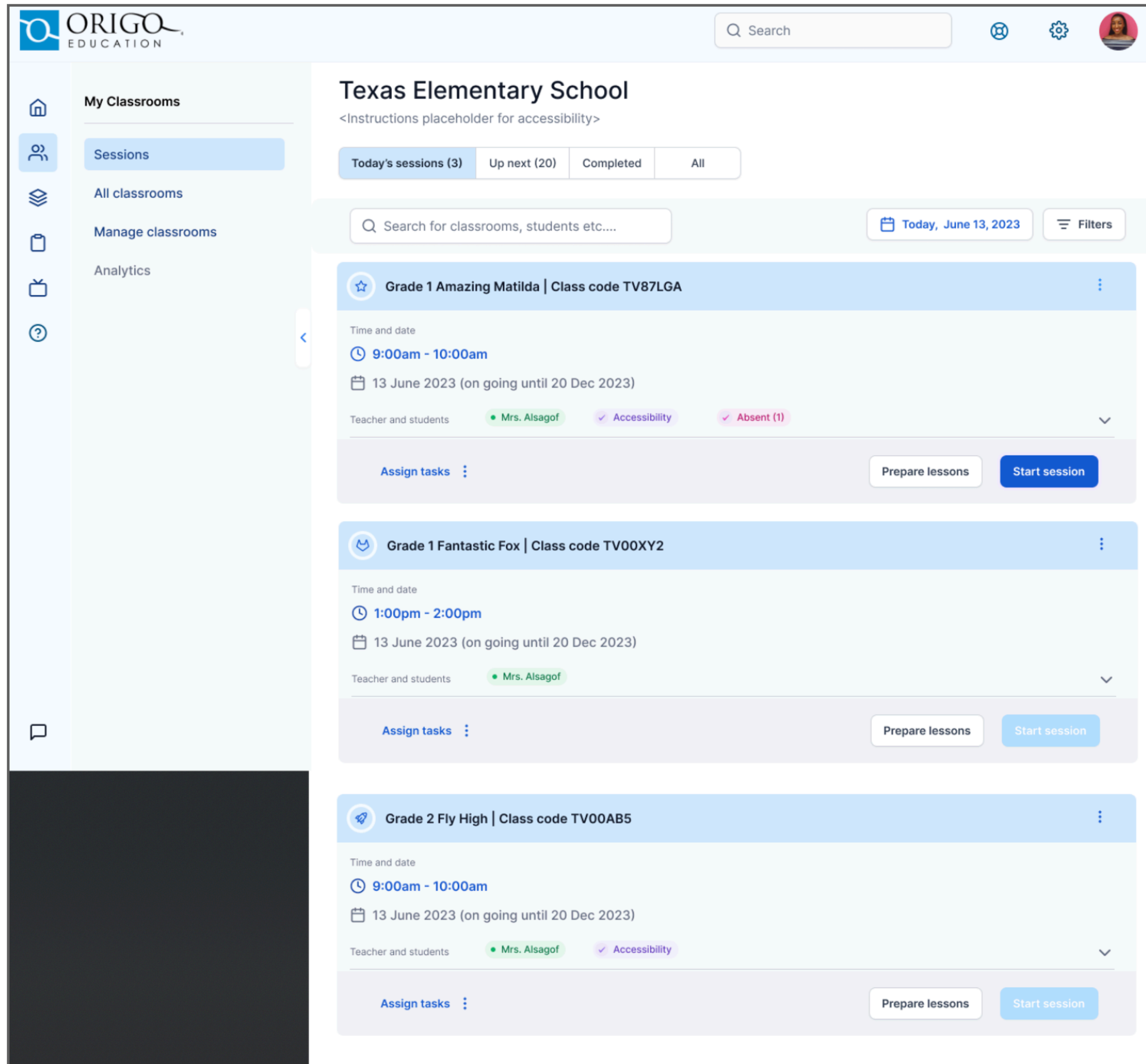
Existing interface



Uplifted design for build



Uplifted design for build



AWS

GREENLIGHT - a B2B Statement of Expectations (SOE) assessments platform used by RISE leads

PROBLEM STATEMENT | PRODUCT INTENT

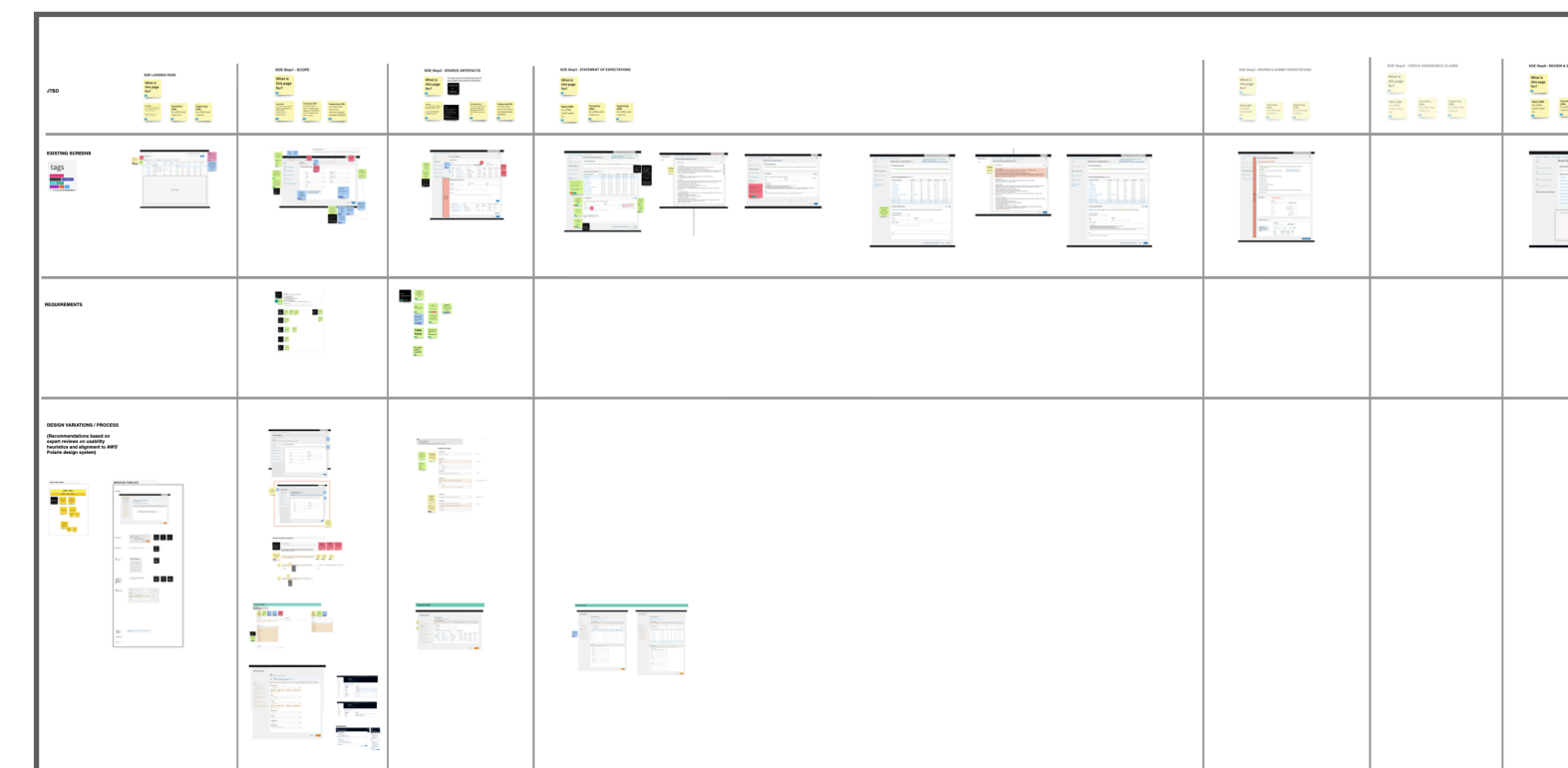
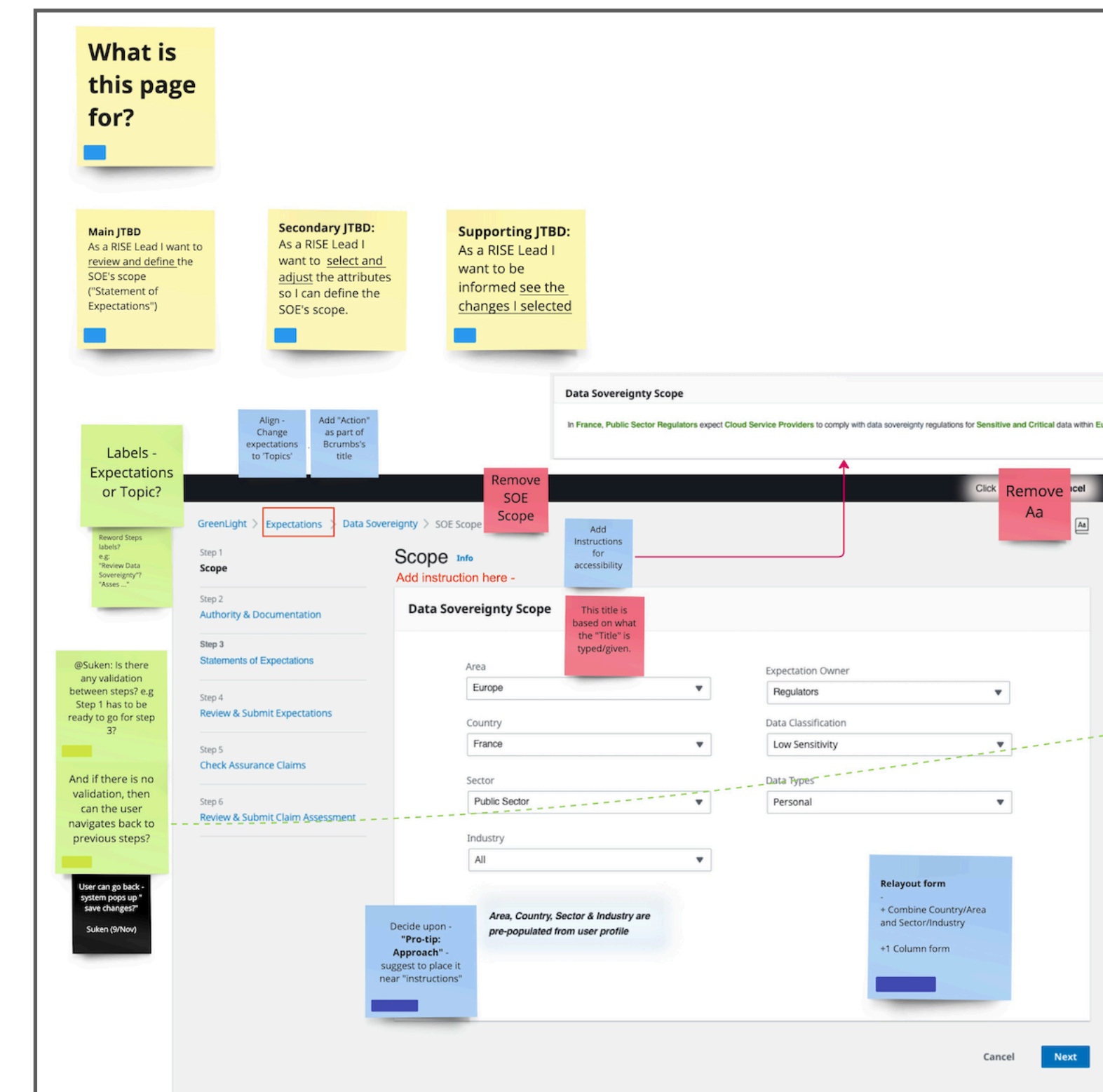
Statement of Expectations, or SOEs, are well defined structured statements, or grouping of statements, that are used to extract expectation parameters. SOEs are simply input sentences that ask for specific parameters based on region and market sector, allowing GreenLight to derive expectations from enacted and in-draft regulations, market conditions and trends, customer regulatory and contractual commitments, as well as customer requests that can be compared consistently across many countries and industries.

MY ROLE & OUTCOME

- Through mini-workshops, I aligned the teams by applying the JTBD approach to help align the team's focus on delivering the user needs and business processes efficiency.
- Conducted expert review on the current screens.
- Accelerated the design work to progress towards development by working closely with the stakeholders and engineers by focusing on the right user flow.
- I delivered uplifted screens designed using the AWS Polaris design system.

STATUS

Being developed.



UPLIFTED SCREENS FOR DEVELOPMENT

GreenLight > Expectations > Data Sovereignty

Data Sovereignty

Step 1 Define Scope

Use this step to define the scope of data sovereignty.

Pro-Tip(s): Areas, Country, Sector & Industry are pre-populated from user profile. Selected scope is reflected in orange-text shown in the Data Sovereignty statement.

Data Sovereignty Scope

In **France**, **Public Sector Regulators...(+2)** expect **Cloud Service Providers...(+1)** to comply with data sovereignty regulations for **Sensitive and Critical** data within **Europe**.

Country: Choose an option
French

Area: Choose an option
Europe

Sector: Choose an option
Public Sector Regulators Sector 2

Industry: Choose an option
Industry 1 Industry 2

Data Classification: Choose an option
Sensitive and critical

Data Category: Choose an option
Financial Data Data 2

Policy Type: Choose an option
Policy type 1

Cancel Next

GreenLight > Expectations > Data Sovereignty

Data Sovereignty

Step 1 Define Scope

Step 2 Select Source Artifacts

Use this step to define and select the source of artefacts.

Pro-Tip(s): —Placeholder— Remove if not needed.

Source artifacts

Source name: National Agency for the Security of Information System (ANSSI) View Authority

Artifacts (160)

Find artefacts

File name	Type	Title	Status	Uploaded on	Uploaded by
<input type="checkbox"/> Short File Name	Legislation	Short title	Published	2022/11/02	Sara Siew
<input type="checkbox"/> A Very Long File Name...	Legislation	Long Title shows ellipses..	Published	2022/10/05	Adam Heath
<input checked="" type="checkbox"/> File #000	Document	Title #001	Published	2022/09/09	Luisa Smith
<input type="checkbox"/> File #001	Legislation	Title #002	Draft	2021/08/17	Sara Siew
<input type="checkbox"/> File #002	Document	Title #003	Draft	2021/04/15	Adam Heath
<input type="checkbox"/> File #003	Document	Title #004	Published	2021/07/01	Luisa Smith

Cancel Next

GreenLight > Expectations > Data Sovereignty

Data Sovereignty

Step 1 Define SOE Scope

Step 2 Select Source of Artifacts

Step 3 Create SOE and Check Claims

Use this step to create the Statement of Expectations based on the requirements shown on the table. Scroll down to check claims against the statement of expectations.

Pro-Tip(s): ** Change indicates prepopulated parameters from SOE scope. Grey requires a selection or input

Data Sovereignty Scope

In **France**, **Public Sector Regulators...(+2)** expect **Cloud Service Providers...(+1)** to comply with data sovereignty regulations for **Sensitive and Critical** data within **Europe**.

SOE for Data Sovereignty (10/10) Mandatory

Statement of Expectation	Mandatory	SOE Status	Policy	Condition	Claim Status	Blocker
Storing Data	<input checked="" type="checkbox"/>	Filled	Legal	Must	Pending	Pending
Processing Data	<input checked="" type="checkbox"/>	Filled	Legal	Must	Pending	Pending
Transferring Data	<input checked="" type="checkbox"/>	Filled	Legal	Must	Pending	Pending
Use of Derived Data	<input checked="" type="checkbox"/>	Filled	Legal	Should	Pending	Pending
End-User Access	<input checked="" type="checkbox"/>	Filled	Legal	Should	Pending	Pending
Pre-Authorized...	<input type="checkbox"/>	Not Applicable	Legal	Must	Pending	Pending
Administrator Location	<input checked="" type="checkbox"/>	Filled	Legal	Should	Pending	Pending
Established In-Region	<input checked="" type="checkbox"/>	Filled	Legal	Must	Pending	Pending
Remote Administration	<input type="checkbox"/>	Pending	Pending	Pending	Pending	Pending

Remote Administration Applicable

[Physical Access Controls] access controls for remote technical support with access to **Sensitive and Critical** data from outside of **Europe**.

Physical Access Controls: Select from dropdown

Policy Type: Legal

Condition: Must

References

View the file and search for the SOE's reference text or manually input and include sources in the Reference Text box below.

Reference Link: [This is the reference document.pdf](#) View

Reference Text: Copy and paste the reference text here.

Notes

Cancel Next