## Dependencies

* Real-time collaboration framework (websocket or similar sync engine).
* Role-based permissions (Owner / Editor / Viewer).
* User presence service (avatars, active status, typing/edit indicators).
* Version history and audit logging.
* Secure data storage and encryption per RBC compliance.

## Acceptance Criteria

1. Live Editing – Multiple bankers can edit the same brief or script simultaneously; changes appear in real time.
2. Presence Indicators – Show avatars/initials of collaborators currently viewing or editing.
3. Section-Level Locking – If one banker edits a section, others see it as “locked” or “being edited.”
4. Change Tracking – Edits are attributed to a specific user (hover to see “Edited by X at [time]”).
5. Permissions Enforcement –  
   * Owners/Editors can modify text, duplicate, archive, or delete sections.
   * Viewers have read-only access.
6. Notifications – If someone comments, updates, or finalizes an output, collaborators get notified (in-app and/or email).
7. Versioning – Each save creates a version; users can restore prior versions if needed.
8. Export – Finalized collaborative outputs can still be exported (Word/Email) with all edits merged.

## Business Requirements

* Collaboration must be available in both Client Briefs and Script Assistant.
* Edits must sync within ≤2 seconds across collaborators.
* Must support at least 10 concurrent collaborators per output.
* All edits/actions must be logged for compliance (who, what, when).
* Consistent RBC branding and formatting must persist even during live edits.

## Definition of Done

* End-to-end validation: Banker A + Banker B edit the same script → both see real-time updates → final output exported correctly.
* Role-based permissions verified (Owners, Editors, Viewers).
* Version history and rollback tested.
* Collaboration tested with ≥10 concurrent users.
* QA passes security, compliance, and performance checks.