**GM ONBOARDING TECHNICAL MEETING ON 03/10/2019**

1. **System overview**

External users are classified into 3 entities:

* Registered Clients – Register and submit applications with nominated users
* Signatories – are nominated by registered clients. They complete registration and approve nomination
* Representatives (previously designated users) - are also nominated by registered clients. They also complete registration and approve nomination but only after signatories complete

System users cannot have more than one role in the system.

1. **Applications**

By default the first signatory is a signatory to any application made. He can also feature as a representative in the application he makes.

Applications take only 3 scenarios:

* Sole signatory applications – where a registered client exists as the only signatory and representative. These applications will never be found in incomplete applications
* Sole signatory and nominated representatives
* Sole signatory, other signatory(s) and nominated representative(s)

1. **Internal Staff**

Once an application is made and all signatories and representatives approve internal staff can login, view and either approve or decline applications.

Applications have 2 levels of approvals.

Declined applications gives the client a chance to submit another application

Staff

* Digital Desk – View and advice registered clients on their applications. They can also decline incomplete applications, for this case signatories and representatives are deleted for a fresh approval is nominated again
* Ops – First approvers
* POA – Final approvers

1. **Notifications**

Notifications are sent when a user (internal and external) perform a given function. In most cases the digital desk are informed since they are close and communicate to the clients. Notifications are logged in the system with statuses as sent/failed.

1. **Database Structure**

* System created tables (asp) – used to manage users and sessions include
  + AspNetUsers (for user login data),
  + AspNetRoles (defines user roles)
  + AspNetUserRoles (defines roles assigned to users)
* Custom tables –
  + ClientCompanies – company details
  + ClientSettment Accounts – Clients SSI
  + ClientSignatories – nominated signatories info
  + Currencies – system currencies. Has a separate UI where can be added and edited
  + DeletedEntities – logs deleted items (include a UI for this)
  + DesignatedUserApprovals – logs approvals from representatives
  + DesignatedUsers – store representatives details
  + EmarketApplications – logs application details including approval details by internal users
  + Notifications – logs outgoing emails
  + RegisteredClients – client details
  + SignatoryApprovals – logs approvals from signatories
  + SystemMenuAccess – assigns menus to a given role
  + SystemMenus – stores menu information
  + tblStatus – keeps statuses referenced in other tables. (e.g. 0 – inactive, 1- active, 2, deleted etc.)
* Tables and their relationships are defined in DBModel code. That is why we have 2 connection string in the web.config
* Web.Config also defines OTP expiry settings for external clients. This value is in hours.

1. **System design Structure**

System uses HTML5, Bootstrap v 4.3 for templating, JQuery for DOM manipulation and Ajax to handle post and get requests from users.

Other styles are found in the Assets folder and referenced in bundles page.

**SYSTEM AMMENDMENTS TO BE DONE**

1. When a signatory/Representative leaves the company that he was nominated there should be a provision to exclude from the application
2. Provide provision to edit SSI after clients have made applications

**TECH**

1. Have a separate report on system users which can be extracted in csv
2. Have users change their passwords after 15 days done
3. Include audit trail report for both edit and delete items
4. Provide self-unlocking for locked users
5. Add database backup cron jobs in the production server done in test
6. Encrypt username and passwords in web.config file