**Technical details**

* **Overview of BRM System**
* BRM is a modern .Net Core (.Net 5) Server Application.
* The web pages uses Bootstrap 5 css and does not have any further libraries or third party component dependencies.
* Depends on .Net Core Hosting Bundle for deployment.
* BRM Security is controlled by Active Directory
* The System comprises of 4 Projects:
* Sassa.BRM – Main system SPA
* Sassa.Data – Datalayer using EntityFramework with an Oracle connector.
* Razor.Components – Custom UI components used on the Website (Pager, Tooltip etc.)
* Sassa.Barcoder – Creates SVG barcodes and QR Codes used in the system
* **Sassa.BRM**
* **Services**
* The BRM system implements dependency injection for all components and functions.
* The following Services are defined in the \Services folder
* **BarCodeService** – Implements the barcode creation logic.
* **BRMDbService** – Impliments all the db calls
* All business Logic implemented in this Service.
* All db calls are async.
* Errors are thrown to the UI that will wrap them in a Alert Message.
* **CSService** – Interface with ContentServer to fetch Document Images.
* **EmailClient** – for sending confirmation mails and TDW file requests.
* **MailMessages** – Formats for standard email messages.
* **RawSQLService** – Calls to Socpen data and other ad hoc DB’s.
* **ReportDataService** – SQL used for reports.
* **StaticDataService** – All static data is cached here for access by all clients of the app.
* **SvgRenderer** – Renders SVG components (Barcodes/charts)
* **Timed Service** – An background service that runs on a timer. Currently used to synchronize Kofax scans with the File requests (Picklist Item status)
* **UI**
* The UI consists of Pages, Components, Modals and Print pages inn the \Pages folder with the following Structure:
* Pages
* **Index** – Main landing page with user info.
* **SearchApplicant** – Main page for capturing BRM records based on a list of SOCPEN records for an Applicant Id. Creation of the file Coversheet.
* **Batching**
* LOBatch – batching.
* BatchWaybilll – Waybill list page
* TDW Waybill (print dispatch)
* Receipt
* **EnquiryPage** – General BRM enquiries over BRM, SOCPEN and TDW data
* **Reboxing** - Ready batchs for Scanning and dispatch to TDW
* **FileRequest** – Requesting files form Contentserver(Digital) or TDW(Physical files)
* SearchFiles
* View digital images.
* ViewRequests
* List of active file requests
* Request processing
* Picklist status – Picklist progress page and manual receipt/return functions.
* **ReportPage** – Report request page. All report are prepared async and saved to the report download folder.
* Destruction - Destruction Process
* Exclusions - Capture Id's to be excluded
* Approval - Stakeholders to approve each region's Exclusions to be complete.
* Export Destruction list - For use by TDW in the destruction process.