Item Writing

An overview of the various aspects and functionality of CE Item Writing, Exam Scanning and Online Testing

Introduction

- Item writing has been written using ASP.net and MS SQL Server
 - Could support mySQL on request
- It has been in development and production at various client sites for 4+ years
- It has hosted over 350,000 items
- Most items have been migrated from PET, about 70,000 items from other external systems
- Custom integrations have been developed with multiple third party candidate management and testing systems

Item Writing

- Item Writing is 100% web-based
 - No installation to desktops
 - Can be accessed either internally or externally
 - Can be accessed by mobile devices
- All modern browsers are supported
 - Chrome, Edge, Firefox, Safari
 - Internet Explorer is still supported but not recommended
- Supports either Forms or Windows authentication
- Compatible with MS SQL Server 2008 to current
- Implements MS .net framework 4.7.2

Security

- Supports Forms and Windows authentication
- Banks are logically separated and users have bank level security.
 - Exposure to Items, Exams and/or functionality is controlled by software
 - No access/read only/full access
- Form level security to limit access to menu and reporting options
- Security groups for rapid maintenance
- Supports record locking; no concurrent maintenance
- Field level auditing and process auditing

Selection Grids

- All selection grids support views allowing users to customize which fields are important to them
- Grids are sortable, filterable, resizable, multiple page options,
- They also allow data to be exported to various formats (DOCx, XLSx, PDF, text file etc)

Item Banking

- Logical separation of data within the system
 - All data can be contained within one database for barrister, solicitor, paralegal, etc.
- Data can be replicated (copied/moved) between banks, assuming bank permissions

Exams

- Multi-language support
- Multiple versions supported
- Multiple forms (different logical sequencing of items)
- Supports drag/drop sequencing of exams
- Document builds support templates to customise the look of the exam documents
 - Supports review copy formats to include all exam, item, attachment, reference, author, stats information in line with the exam document

Sessions

- Supports multiple sessions for the same exam
 - Different sets of registrants can be logically split for demographic or different testing periods
 - Do not have to copy the exam to test with different candidates
- Single or multiple sessions can be tested to easily combine results data

Calculations

- Multiple independent sets of statistical results can be tied to a given exam
- Results view are provided to give raw views of results data which are customisable and exportable

Items

- Supports
 - multi-language;
 - multiple versions;
 - Revisions
 - Multiple competencies
 - Multiple attachments
 - Multiple options + constructed response

Attachments

- Supports all modern image formats
- Supports HTML/rich text for instructions

Competencies

- Supports multiple hierarchical competency types
 - Category
 - KSA

Reporting

- Several reports are included with the Item Writing package
- Custom reports are available upon request
- Reports can be exported to a number of formats
 - PDF
 - XLSx
 - DOCx
 - Text file

Online Help

- All documentation is available via a hosted Wiki page
 - https://www.certificationenterprise.net/cpswiki/
- Item Writing users may optionally maintain their own process flow documentation via their own wiki area

Exam Form Scanning

- Exam Scanning is a windows-based application
- Integrates with Item Writing database for security, items, exams, sessions etc.
- Supports the latest generation InScan scanners/hardware
- Supports spreadsheet-based result import
- Customisable to use STXAPPDEF scan definitions
- Customisable scan mappings to Item Writing
- Supports a wide variety of out-of-the-box sheet validation rules to warn or reject sheet data

Online Testing

- Integrates with Item Writing database for security, items, exams, sessions etc.
- Delivers MCQ items to candidate for selection
- Optionally informs the candidate of their score upon exam completion

Data Migration

- Custom migrated legacy client data from PET as well as other proprietary systems
- Integration with multiple 3rd party candidate management, online and computer-based-training parthers
 - PearsonVUE
 - Surpass
- Supports transform and load functionality in multiple formats
 - JSON, XML, XLSx, DOCx, DAT, TXT
- Integration with Web API, web services, file system, command line, direct data access or SQL stored procedures