

Application to manage aircrew data of a Military Establishment

Indian Navy

JVs and Branches:
India, United Kingdom,
Australia, Bahrain,
Japan, Singapore

Case Study

The Directorate of Indian Navy

Indian Navy's Directorate of Naval Air Staff at Naval Headquarters desired to streamline and maintain their aircrew information by automating their existing form named S-226. The purpose behind this is to scan the forms using a scanner and extract pre-defined information from the image and store the same into a database, custom designed reports will allow the users to query the database. The forms submitted twice a year are updated into the database. The same is maintained at the Directorate of Naval Air Staff at Naval Headquarters.



Automated system – the solution

The current process is manual, where the old form is filled and sent to DNAS. The DNAS then enters the data in legacy software designed in FoxPro. The entire process is manual and there is no validation done in the current software, all calculations are done manually. Some fixed reports are generated through this system. No backup is maintained at this point in time. The software runs on a standalone PC and is not a client server application. The system is not scalable and is not Microsoft Windows compliant.

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TechUnified, with a qualified team of experienced professionals enabled this complex system, which comprised of developing the whole system from scratch, its testing and maintenance. The final outcome was an extensible dynamic and scalable system designed to handle complex data.



Business scenario

The proposed solution was to automate the entire process that included

- Automating the process of scanning and capture
- Automating the process of form entry at the aircrew level and enable the same to be printed using a Printer
- Enabling the aircrew to print only the form and enter the data manually
- Enabling DNAS to enter the data manually incase of scan error
- Enabling DNAS to maintain a set of Master Tables
- Automating report generation with custom queries
- Automating backup and restore process
- Enabling Aircrew to maintain their individual S-226 form
- Incorporating User Management
- Incorporating Security compliance into the software

Technologies

- Microsoft .NET
- ADO.NET
- ASP .NET

Software

- MS Windows 2000 Server
- IIS server
- SQL server 2000
- Crystal Reports

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