Project Title

Leveraging on IT to Increase Productivity & Efficiency in Residency Dashboard Reporting

Project Lead and Members

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Organisation(s) Involved

SingHealth

Healthcare Family Group(s) Involved in this Project

Medical

Applicable Specialty or Discipline

Medical Education

Aims

- To automate the data collection and reporting process
- To eliminate manual transfer of information as well as to increase productivity and efficiency

Background

See poster appended/ below

Methods

See poster appended/ below

Results

See poster appended/ below

Conclusion

See poster appended/ below

Project Category

Technology, Digital Health, Data Analytics

Care & Process Redesign, Productivity, Value Based Care

Keywords

Automated Dashboard, Manual Transfer of Residency Information, Use of IT for Residency Dashboard, Automate Residency Data Collection, Automate Residency Reports

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AIM

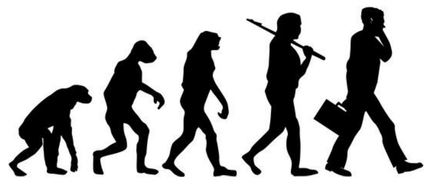
To enable the Graduate Medical Education Committee (GMEC) in overseeing the performance of Residency programmes in SingHealth, the programme dashboard was developed in 2014 as a monitoring system with quantitative metrics for the variables identified in the accreditation requirements.

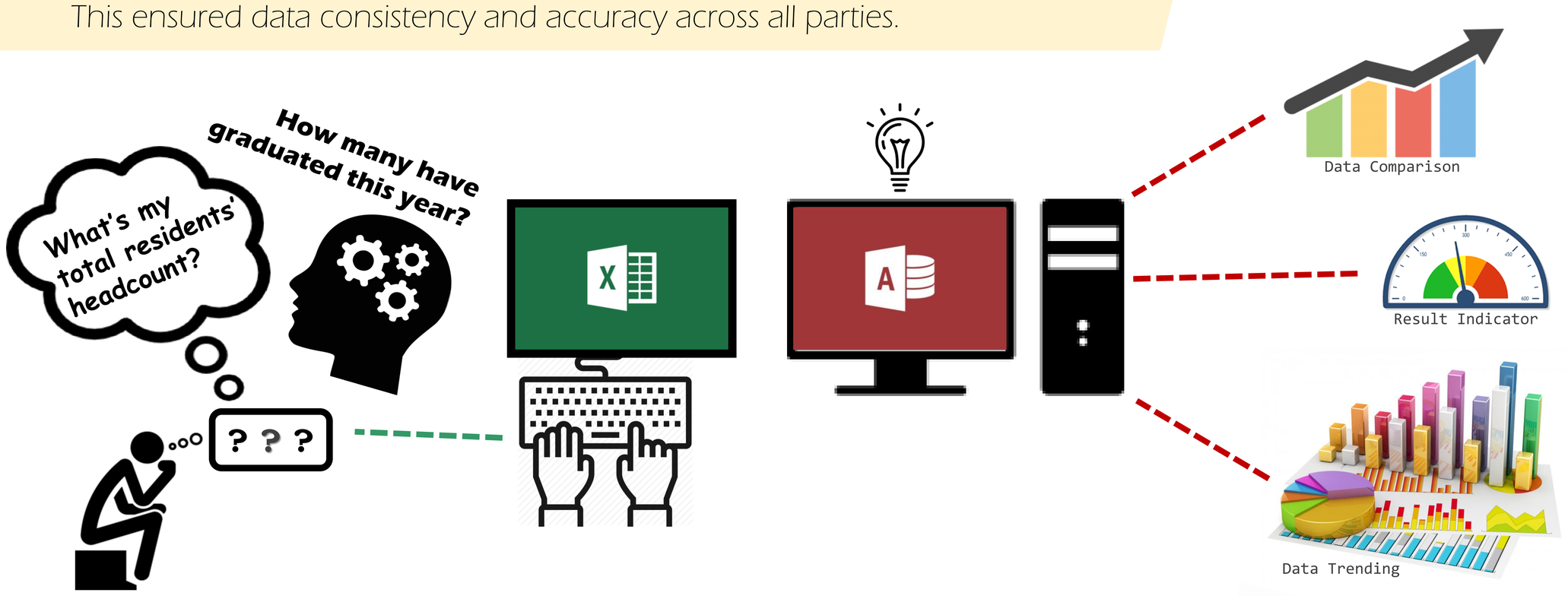
With the large amount of data collected from 34 Residency Programmes across SingHealth, the aim was to automate the data collection and reporting process to eliminate manual transfer of information, increasing productivity and efficiency.

METHODOLOGY

The dashboard was first developed in Microsoft Excel where data were manually tabulated and submitted by individual programmes. This method quickly proved to be unsustainable as the amount of data progressively increased over the years.

Hence, an automated Dashboard was created on Microsoft Access where data is drawn directly from the Resident Demographics Database (RDDB) to provide a platform for Program Executives to enter and verify the data. This ensured data consistency and accuracy across all parties.





CONCLUSION

The automated dashboard has demonstrated the advantages of generating more accurate and timely reports, enabling GME Office to release the reports to stakeholders approximately 45 days earlier. With the amount of time saved, it also enabled programmes more time to study and analyze the data, and Management having an optimal oversight of the programmes' performance.