

Optimising the PGY1 Feedback Collation Workflow Using FormSG, Plumber, and Excel Formulas

Singapore Healthcare Management 2024

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(1) INTRODUCTION

The Department of Internal Medicine (DIM) hosts about 50 Post-Graduate Year 1 (PGY1) doctors at any one time.

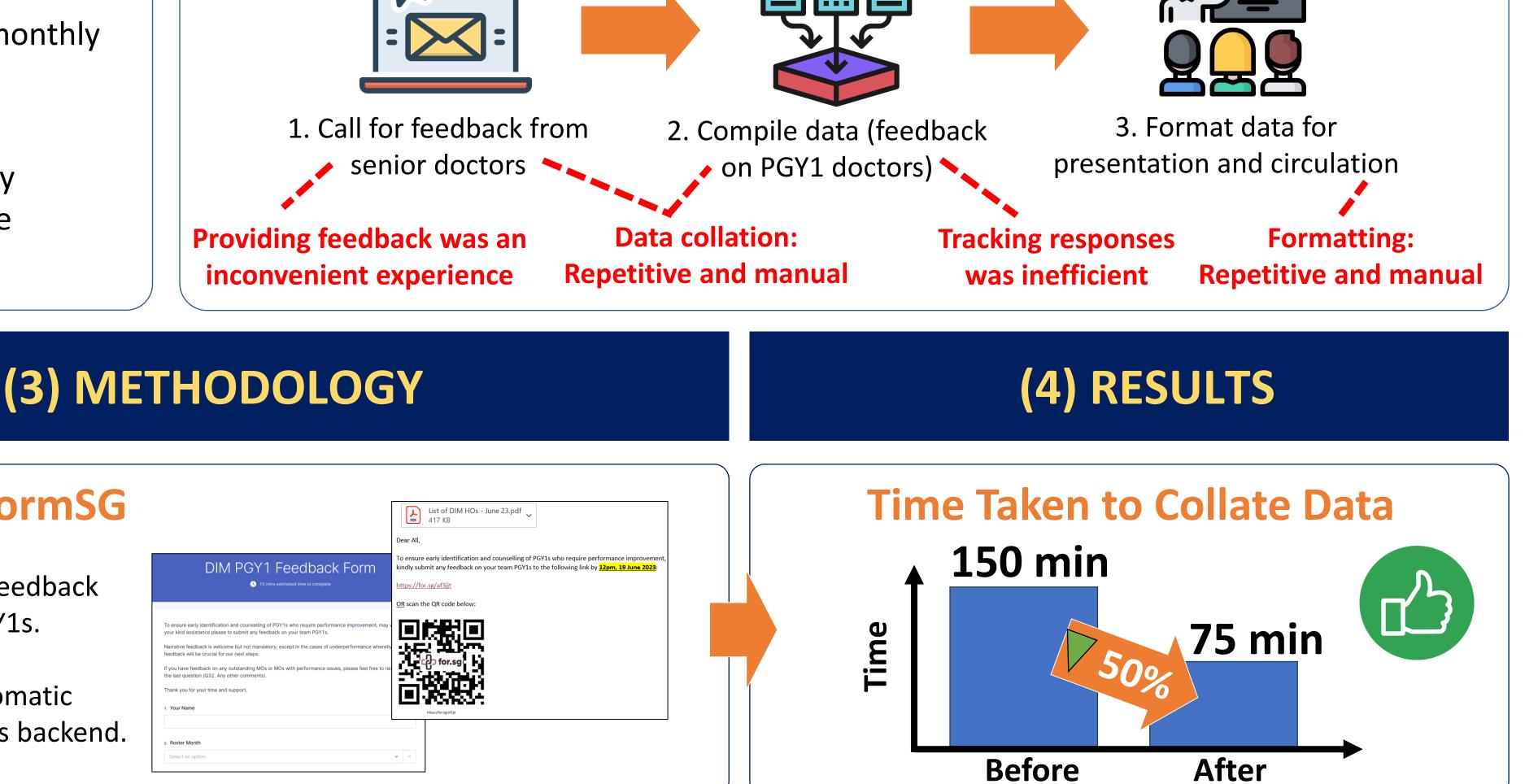
Process Flow & Pain Points







- Every month, feedback regarding their performance is collated monthly from their team Senior Doctors (Senior Residents, Registrars, Consultants).
- This is an essential part of department operations to ensure early identification and counselling of PGY1s who require performance improvement.



Formatting Process: Repetitive and Manual

(2) PAIN POINTS

Data Collation Process:

Repetitive and Manual

Individual emails sent to 15-17 teams

Individual replies received from each

team's doctors \rightarrow 50 email threads to track

Usage of Formulas and Macros

Creation of FormSG

For doctors to fill in feedback

about their team PGY1s.

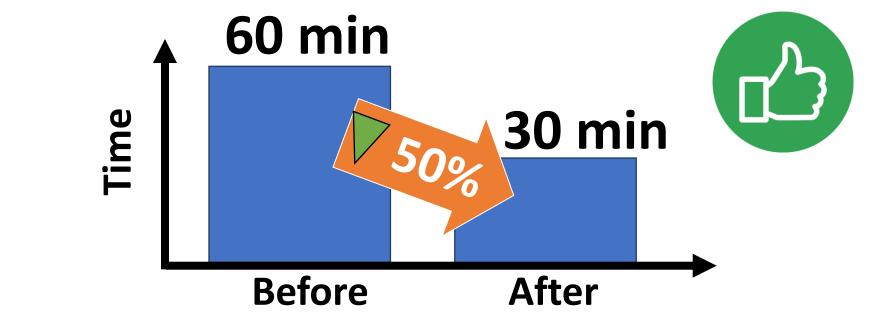
FormSG enables automatic

collation of responses backend.

Formulas (CONCATENATE & VLOOKUP) and macros speed up process by performing an automatic match of supervisors to PGY1s and compile feedback in ascending order, respectively.

Time Taken to Format Data





Responses manually copy-pasted from the 50 threads into an excel document

PGY1s' supervisors names manually input during formatting of excel document

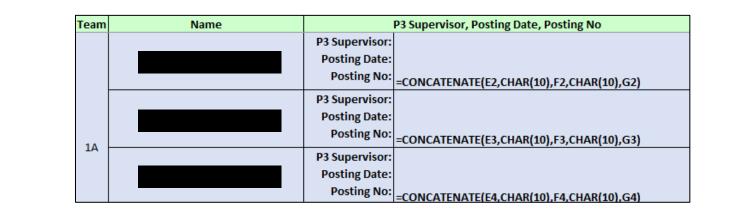
Tracking of Responses:

Need to manually log into FormSG

passwords) to check for results

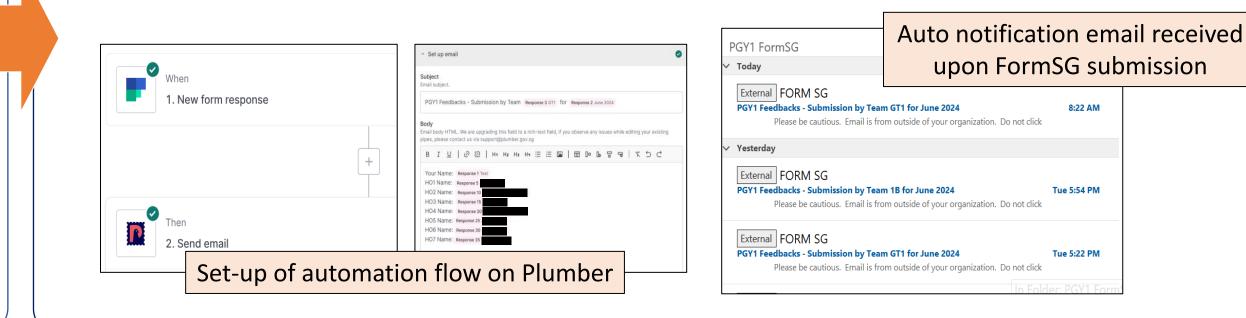
(which requires retrieval of multiple

Inefficient

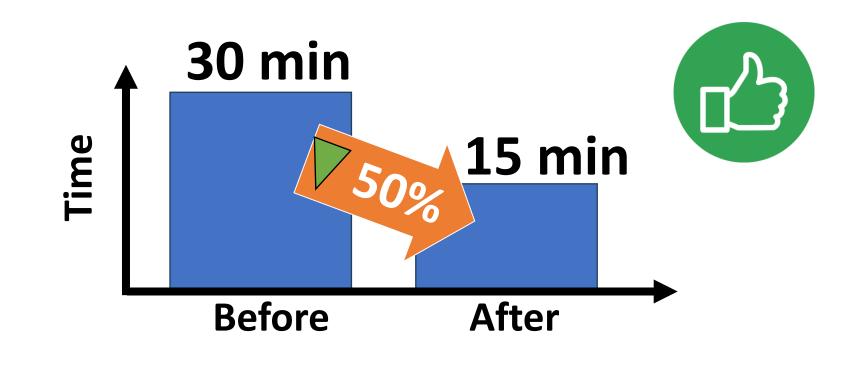


Automation of Tracking with Plumber

Plumber is a platform used to automate FormSG responses directly into Outlook inboxes to track submission progress at a glance.



Time Taken to Track Responses

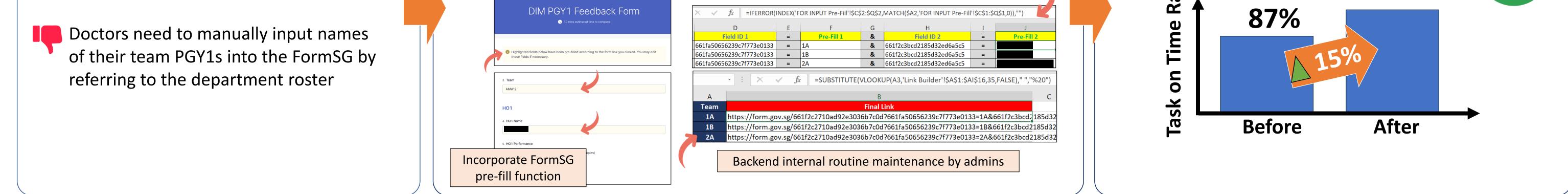


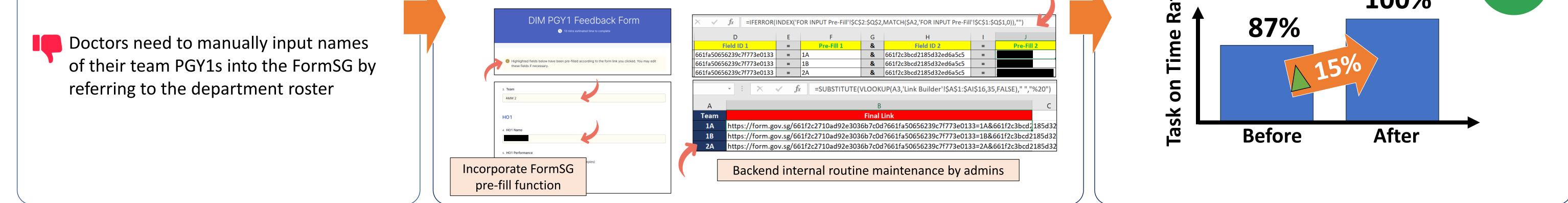


Doctors need to manually input names

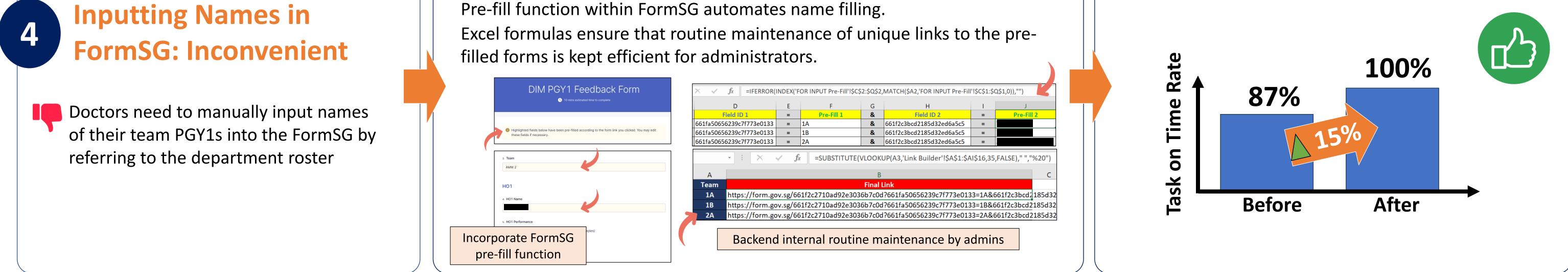
Usage of Pre-Fill Function

filled forms is kept efficient for administrators.



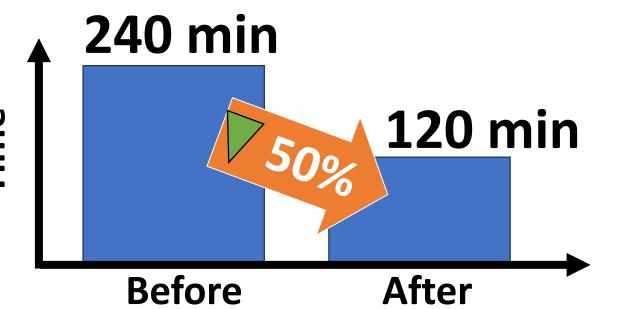


Task on Time Rate









- Achieved a reduction by 50% in time taken to complete the PGY1 feedback collation workflow every month and a relative increase by 15% in task on time rate.
- The interventions will continue to be implemented for other administrative processes due to their ability to increase efficiency, reduce human error, and improve user experience.
- The tools used are low to no-code, which can encourage more staff to use them. This may help remove the perception that automation is restricted to technical staff.