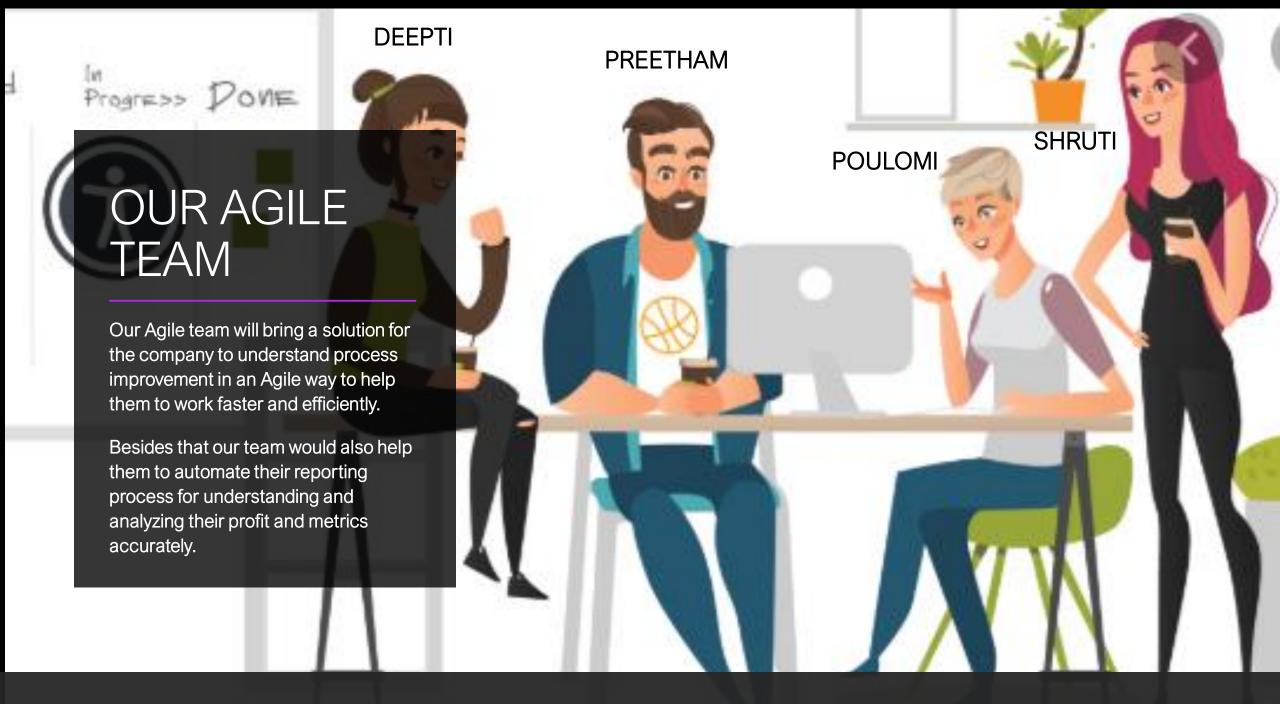
Agile Software Development Final Project

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INTRODUCTION

If there was ever an industry that seemed a stretch for an Agile transformation, it might be real estate, organized as it is according to rules and practices that don't seem to have changed much in decades.

Real estate is a legacy industry that changes at glacial speed, and glaciers are melting faster today. As these industries have longer product development cycles it gets difficult for them to transform to Agile way.

But now while agile real estate is admittedly in its early days, there's a strong movement underway in corporate real estate, fed by commercial real estate giants that see a strong need for firms to rethink the way they do business.

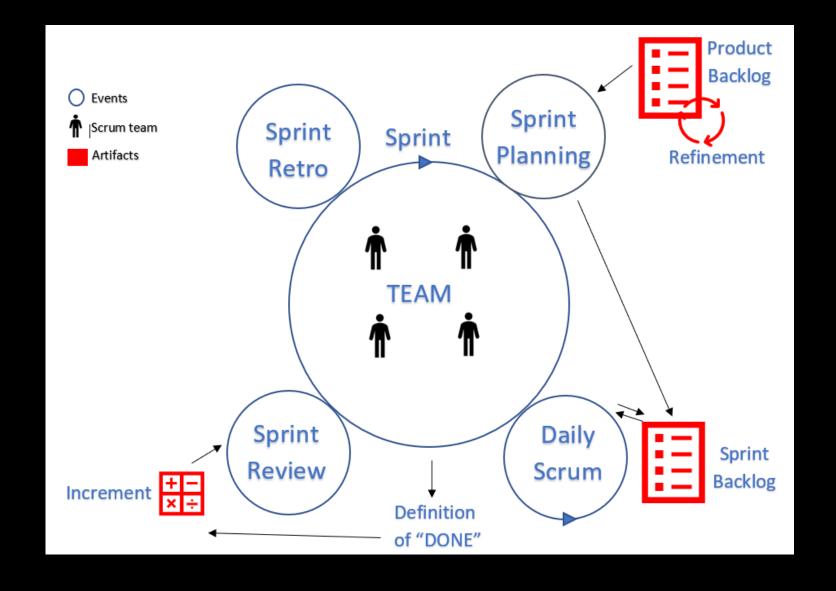


ROLES

Product Owner
Communicate
vision, business goals,
set priorities,
controls work flow

Scrum Master
Effective collaboration,
resolve role conflicts,
helps in establishing
Agile
practices, support in
decision making

Developer cross functional, skilled with tools and techniques, committed and available Analyst
research oriented,
documenting progress
of a project for quality
control, Process
Improvement, Outlining
solutions for business,
Reporting

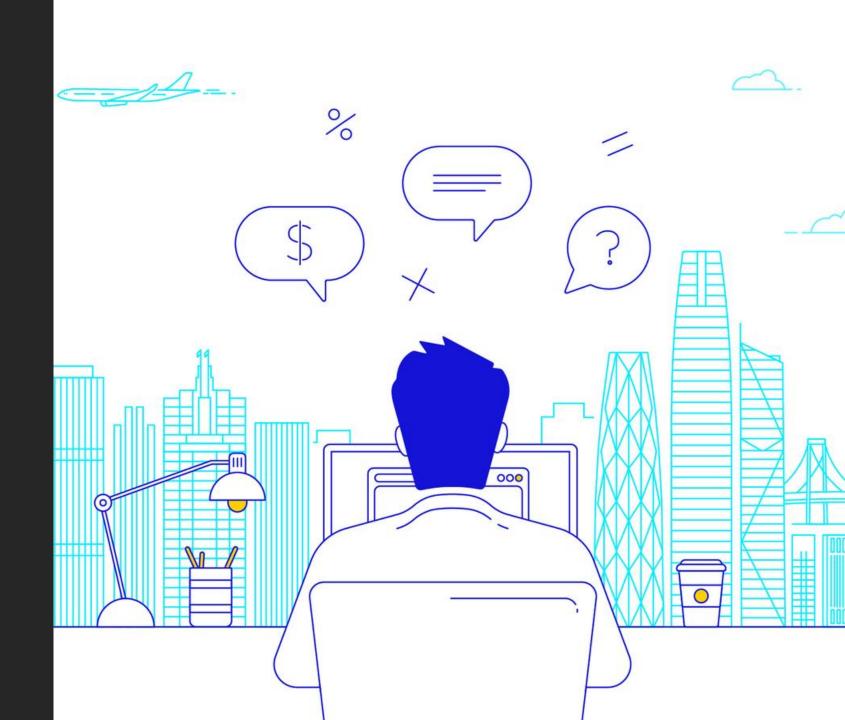


MONTHLY FINANCIAL REPORTING PROCESS

PROBLEM STATEMENT 1

A financial analyst logs into a variety of portals each month to pull the transaction history and convert the transaction history into a concise, presentable report to investors.

The process should be streamlined so that we can move these reports through our pipeline quicker to get these into a distributable state.



EXISTING PROCESS



MANUAL AND REPETITIVE



Log in to clients' dashboards to pull the recent month's reports



Clean data and derive additional columns to create a distributable report



Export the report to Excel and PDF versions



Upload the reports to Google Drive to store centrally and distribute

PRODUCT GOAL



FULLY AUTOMATED
REPORT
GENERATION



Pull data for all managed properties using AirBnB developer API



Automatically generate distributable reports and store centrally for reference

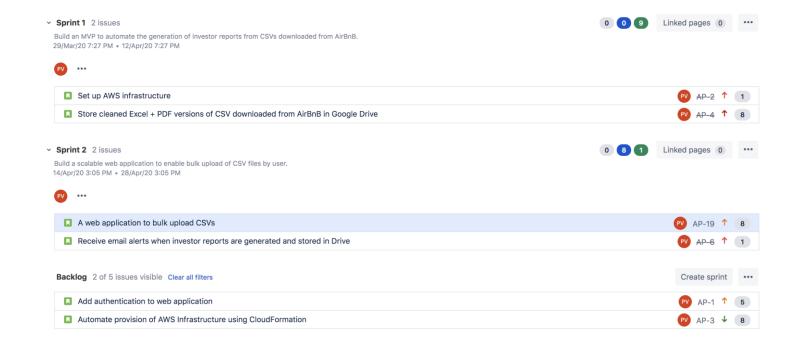


Send investors their corresponding monthly reports each month

DEVELOPER STORY TRACKING

The team has leveraged JIRA to track user stories and subtasks.

The list of user stories assigned to the developer show the progress made and the product backlog.



STREAMLINED PROCESS IN NEXT RELEASE



SEMI-AUTOMATED



Log in to clients' dashboards to pull the recent month's reports



Bulk upload all CSVs downloaded from AirBnB to our application

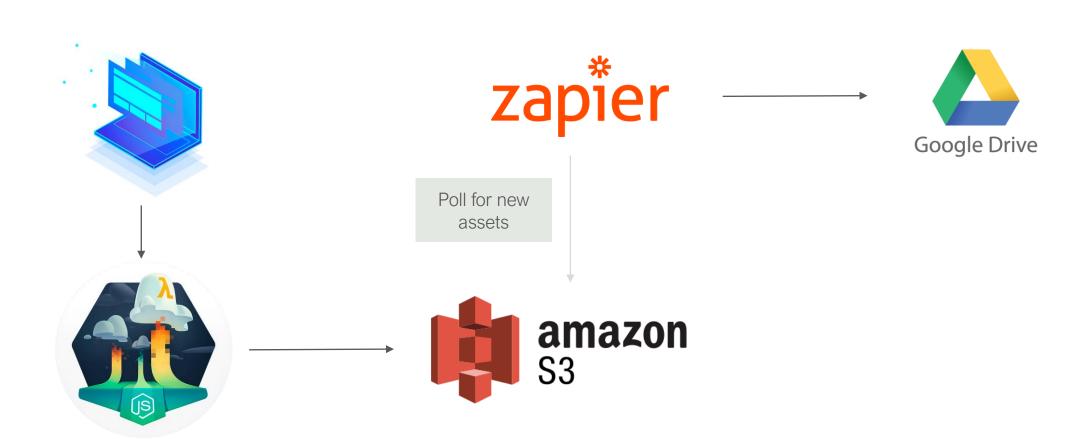


Investor reports are generated in the cloud and pushed to Google Drive



Analyst receives an email after the distributable versions are auto-saved in Google Drive

ARCHITECTURE - PHASE 1



ARCHITECTURE - PHASE 2

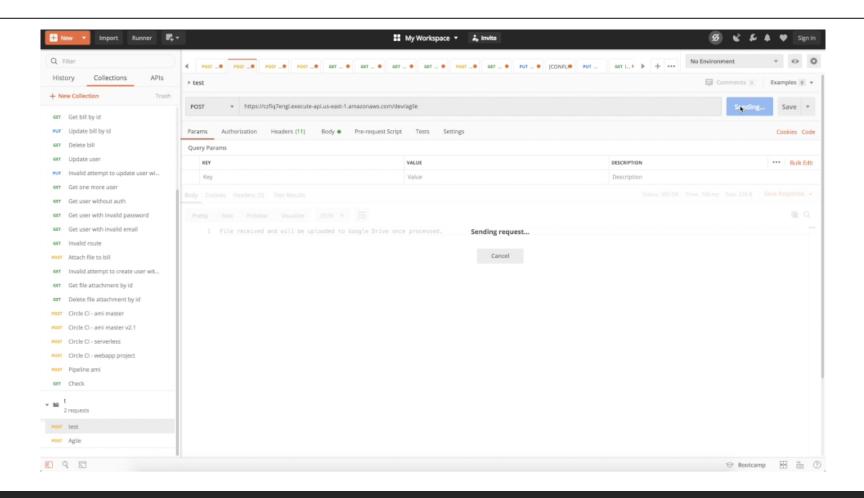
Poll for new Excel reports and create PDF copies







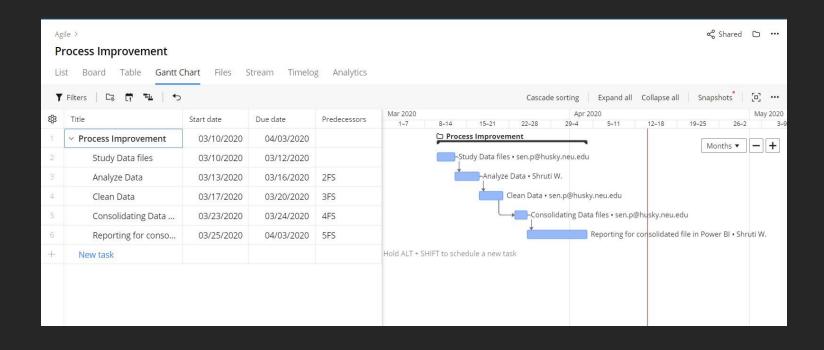
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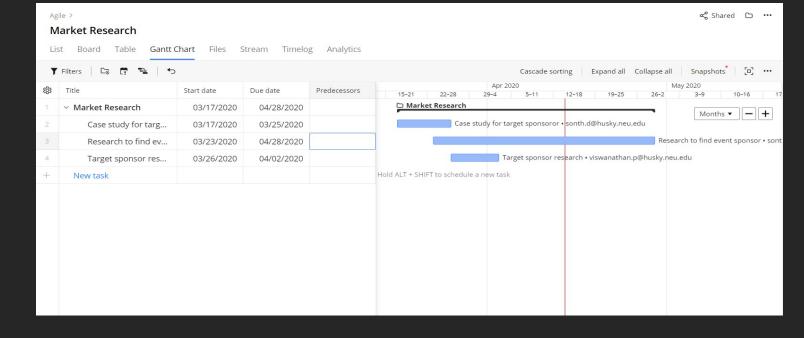


ANOTHER AGILE TOOL WRIKE

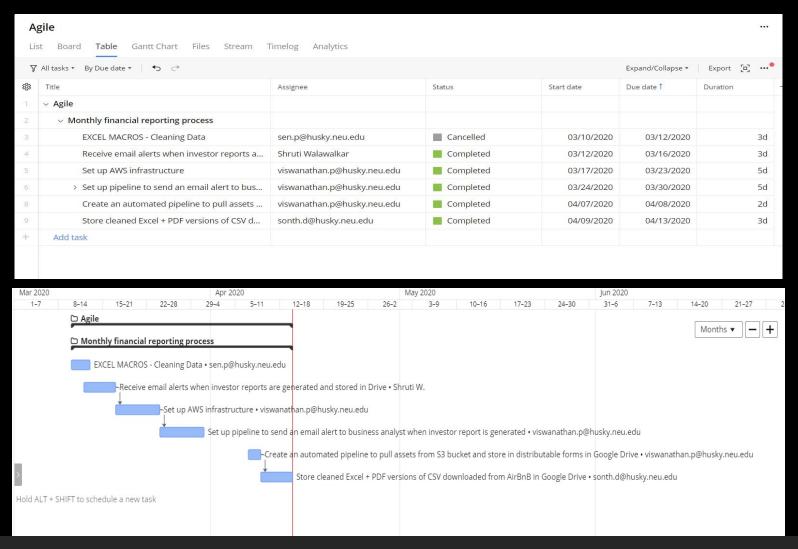
Tools key Features:

- Simple to do list
- Easy task scheduling
- Map out a product lifecycle
- Team Collaboration





PROJECT MANAGEMENT LIFECYCLE REPORTING







To understand process improvement in Agile

PROBLEM STATEMENT 2



To consolidate the spreadsheets provided by the business into a single workbook



To consider a dashboard report of key metrics by unit



Continuous Improvement

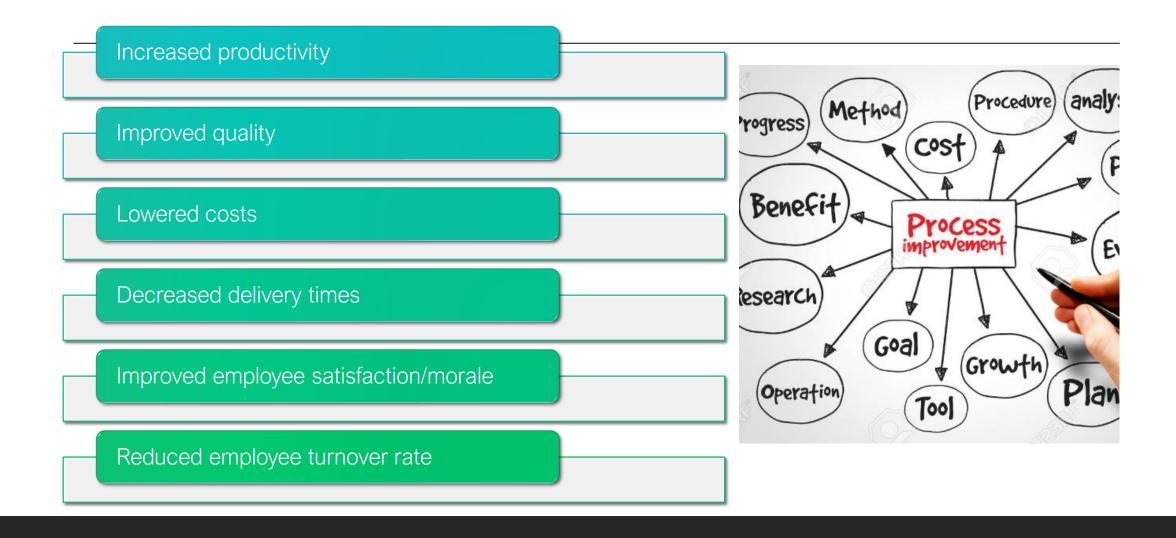


Process improvement is the initiative of identifying, analyzing, improving and monitoring existing business processes within a company for optimization and to meet new standards of defined performance metrics and quality.

Improving business processes involves the systematic approach of problem-solving that follows a specific methodology by closing performance gaps through cycle time reduction, and elimination of root causes of below specifications quality, process variation, and non-value added activities.

Some examples of these methodologies are Lean, Kaizen, RDM, Benchmarking, and DMAIC. Primarily, these methodologies focus on identifying the problem, assessing current state, root cause remediation and implementing improvement.

Why Process Improvement?



Process Improvement method used:

5S for Good Housekeeping

5S is amongst the first and fundamental steps implemented by an enterprise towards the path of implementing Total Quality Management and continuous improvement at the operation level.

5S steps are:

Step 1 — Corresponding action Seiri (Sort) Distinguish between necessary and unnecessary items. Remove the latter.

Step 2 — Seiton (Set in order) Enforce the dictum 'a place for everything and everything in its place'. Step 3 — Seiso (Shine) Clean up the workplace and look for ways to keep it clean.

Step 4 — Seiketsu (Standardize) Maintain and monitor adherence to the first three Ss.

Step 5 — Shitsuke (Sustain) Follow the rule to keep the workplace 5S-right. Hold the gain.

5s in cleaning, analyzing, consolidating and visualizing the data



Step 1: Taken the workbooks - 'Maintenance', 'Cleaning', 'Notes' and 'Unit Breakdown', each workbook had multiple worksheets . Looked at each worksheet meticulously in Python to figure out which column are required, the unique values in a column, the spread of data within the column for sorting the workbooks



Step 2: As the data was analyzed and sorted in the previous step, we could discard the empty rows, empty columns, and sheets with no values by using Macros in EXCEL.



Step 3: After the unnecessary rows, columns and sheets are deleted, then we modified the data accordingly as needed. Example -

- 1. Modify the unit # zero37609 to 37609
- 2. For Unit # in notes workbook for the record -'all', each distinct unit number is inserted in multiple rows.



Step 4: Tried to standardize inserting extra column -'Month' and merging all the months which was in each separate sheet to a single sheet for 'Cleaning' workbook.

Also, tried to merge each cleaned and modified workbook into a single workbook with multiple worksheets using EXCEL Power Query.



Step 5: The consolidation of the multiple workbooks to a single workbook helps to understand, summarize and analyze the process and we should further work on that for further improvements.

CONSOLIDATED WORKBOOK



DATA REPORTING

"A PICTURE TELLS A STORY BETTER THAN A THOUSAND WORDS COULD"



What is the story your data is trying to tell



What type of data do you want to visualize



What chart type will display your data in the simplest and most efficient way



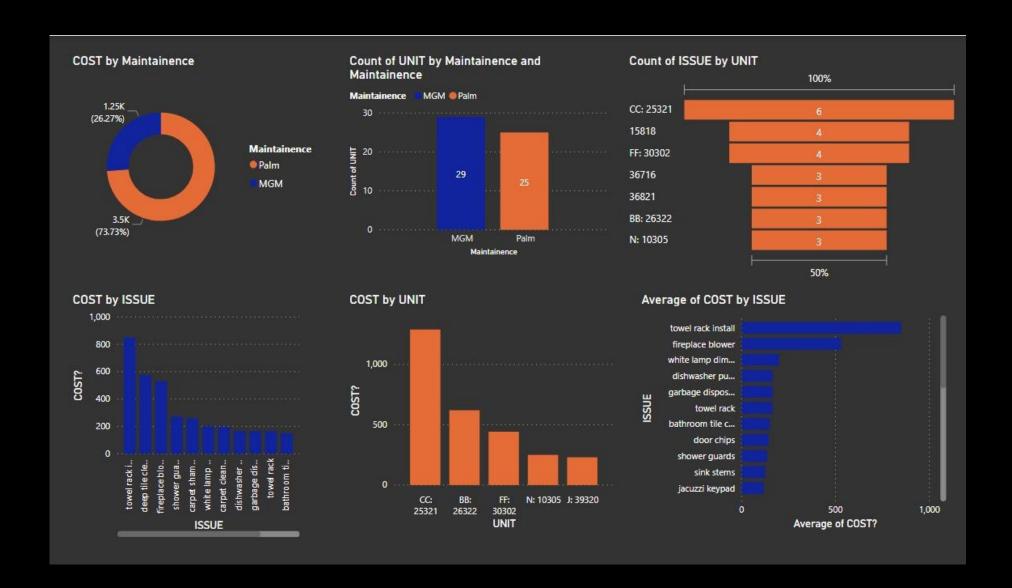
Who is your audience

Link to Dashboards: https://app.powerbi.com/reportEmbed?reportId=f223c8b2-e567-4951-9883-56f94ccdc30b&autoAuth=true&ctid=a8eec281-aaa3-4dae-ac9b-

9a398b9215e7&config=eyJjbHVzdGVyVXJsIjoiaHR0cHM6Ly93YWJpLXVzLW5vcnRoLWNlbnRyYWwtcmVkaXJlY3QuYW5hbHlzaXMud2luZG93cy5uZXQvIn0%3D

ANALYTICS - MAINTAINENCE

- How much of Cost is contributed for each Type
- Number of units for every Maintenace Type
- Top units with maximum Issues
- •All Issues costing more than 100
- Top 5 high maintenance units
- Average cost spent on a type of issue

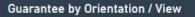


ANALYTICS - UNIT BREAKDOWN

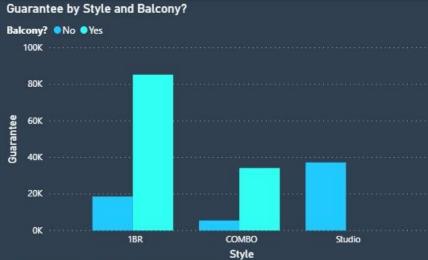
- Number of units in each style 1BR, combo, etc.
- Top 5 owners with highest average Guarantee
- •Owners with max units owned by them
- Contribution to Guarantee with respect to Orientation
- •Guarantee by on Style and presence of Balcony
- •Units contributing maximum Guarantee

Style	Count of Unit#
1BR	41
СОМВО	7
Luxury	5
Penthouse	3
Studio	17
Total	73

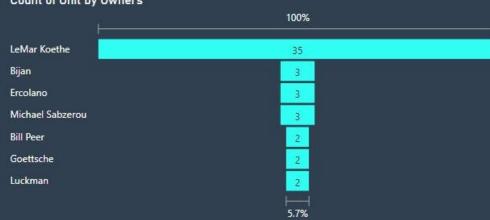
Owner	Average of Guarantee
LeMar Koethe	3471.43
Morrow	5500.00
Peter Lee - APOLAUSTIC	3100.00
Pettibone - ALIBI	3100.00
Rodricks Group	3100.00
Total	3494.87



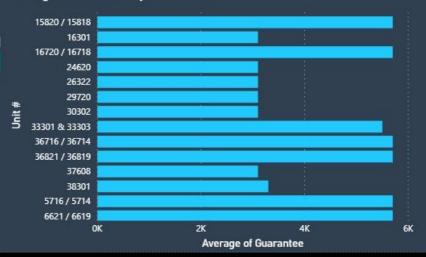




Count of Unit by Owners

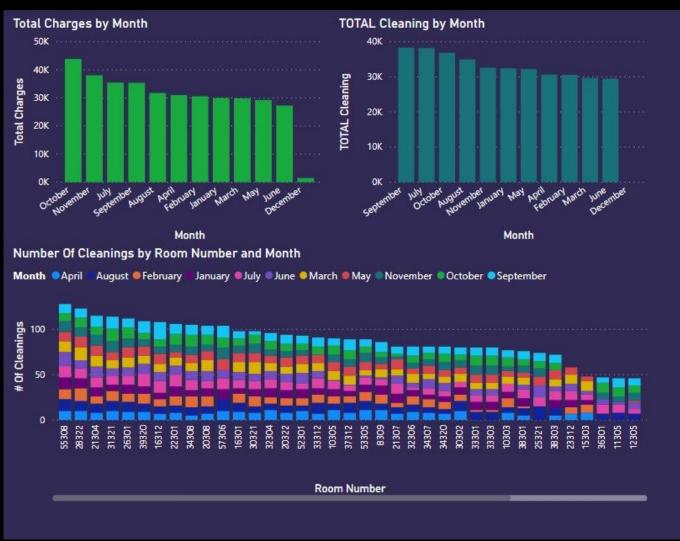


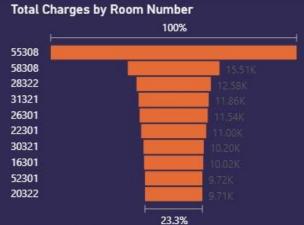
Average of Guarantee by Unit Number



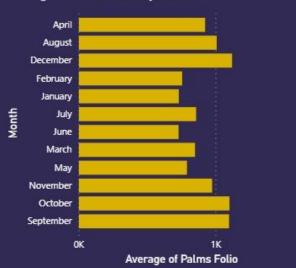
ANALYTICS - CLEANING

- Total charges every month
- Charges every month for cleaning
- Rooms with highest charges
- How many cleanings are done in a room every month
- What is the average palms folio contribution every month



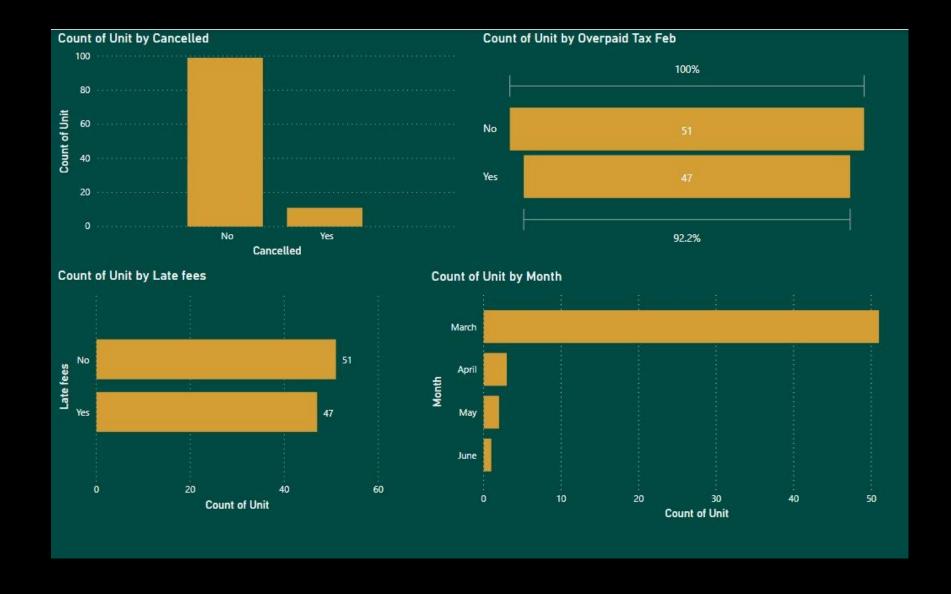






ANALYTICS - NOTES LOG

- Number of units charged cancelled fee VS not cancelled units
- Count of units that were charged "over paid tax Feb" fee
- Count of units that were charged "late fee"
- Count of units having transaction/notes for every month





PROCESS TO TARGET SPONSORS FOR LARGE EVENTS



Event description including location, date, time, agenda, expected attendance



Target audience personas Goals for a sponsor partnership



Sponsorship details including marketing and promotion tactics



Any marketing and promotional partnership requests



Sponsorship benefits



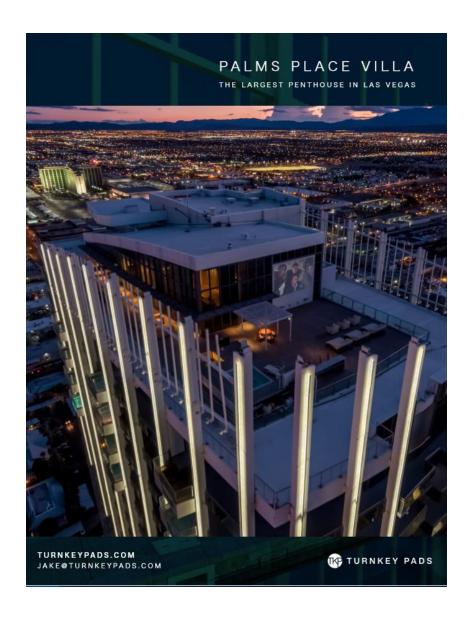
Sponsorship investment



Include Different Event Sponsorship Levels



Make Your Sponsorship Page Enticing and Vibrant



4381 FLAMINGO ROAD, PH 5902

Welcome to the highest Penthouse available in Nevada. Floating 59 stories in the Las Vegas sky is the unsurpassed Palms Place Penthouse, dubbed as the Eighth Wonder of the World. This remarkable private residence was created for nothing less than the upscale entertainment-filled lifestyle that only Las Vegas has to offer.

6,230 INTERIOR SQFT | 12,000 EXTERIOR SQFT | PRIVATE ELEVATOR



KEY AMMENITIES

- . 300 PERSON OCCUPANCY
- · 4 BEDROOMS
- . 5.5 BATHROOMS
- · INDOOR/OUTDOOR SPACE
- · JACUZZI
- · OUTDOOR MOVIE THEATER
- SURROUND SOUND
 THROUGHOUT PROPERTY
- · PRIVATE ELEVATOR
- · CATERER'S KITCHEN





OFFERING CORPORATE EVENTS, WEDDINGS, BACHELOR/ETTE PARTIES & MORE.
PLEASE INQUIRE FOR RATES

CORPORATE EVENTS



PRICE: \$10,000 to \$100,000



PLACE: 4381 Flamingo Road, ph 5902- Penthouse includes wireless internet in every room, full service catering, restaurant & lounge, satellite TV, projectors and more.



PROMOTION: Special offers, advertisements, endorsements



PRODUCT: 6,230 Interior sqft, 12,000 exterior sqft. Key amenities include 300 person occupancy, 4 bedrooms, 5.5 bathrooms, indoor/outdoor space, Jacuzzi, outdoor movie theater, surround sound throughout property, private elevator, caterer's kitchen.

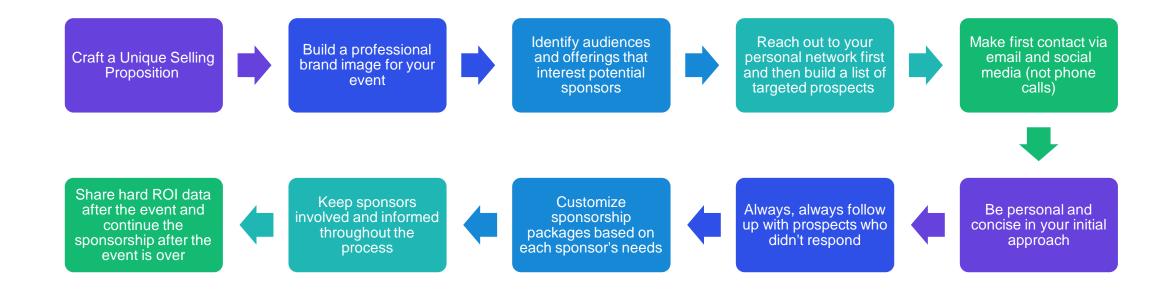


PEOPLE: Corporate business officials



PROCESS: Wide conferences Meetings,
Training, Sales meetings,
Product reveals, Board retreats,
Team building and
leadership retreats,
Private dinners, parties, award ceremonies.

HOW DOWE FIND EVENT SPONSORS?



MAKING DISTRIBUTED TEAMS WORK







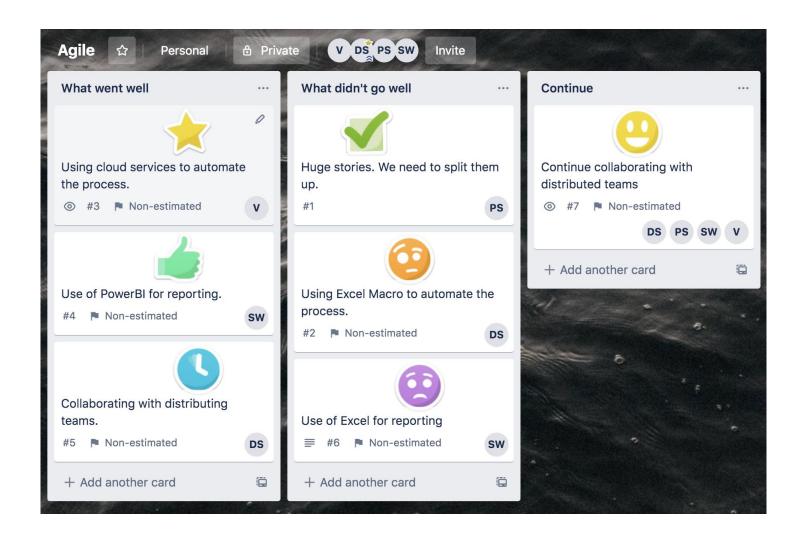




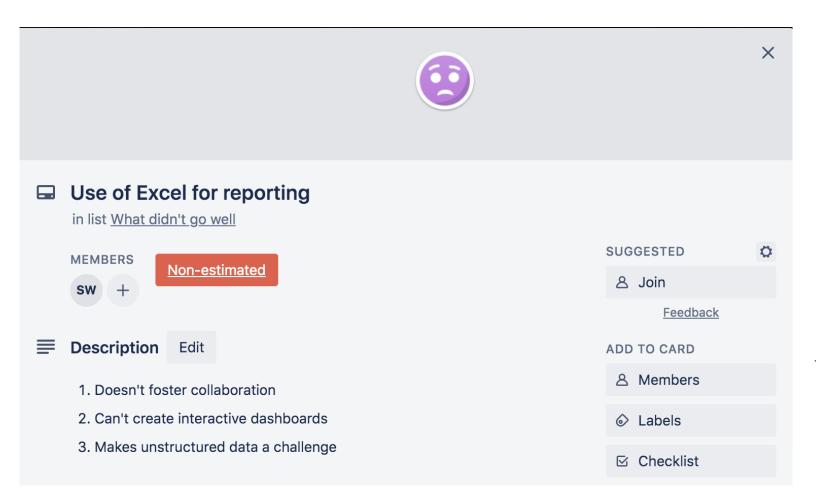








Lessons Learned and Key Findings

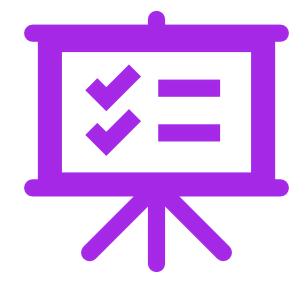


Lessons Learned and Key Findings

CONCLUSION

Working on the project enabled each one of us to develop the following skills apart from learning tools and techniques:

- Planning: Decide steps to reach Goal
- •Organizing: Having materials, resources in place to increase efficiency and save time, money, energy
- Staffing: Recruiting or allotting tasks based on subject matter expertise
- *Leading: Letting an authentic expert lead for the task. Connecting with people on individual basis and being effective leader
- •Controlling: Looking for constant improvement. Controlling tasks, schedule, resources and other essentials in managing a project



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Thank you!