Session 6A.1 & 6A.4
Temple Construction – East Meets West
Apps for Temple Management & Maintenance

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Introduction

- Importance of choosing the right materials for construction and maintenance of a temple
- Building a temple may seem very viable
- Sustainability – Maintenance and durability of the facility
- Apps used for Temple Operations

Types of Construction on Exterior

- Cast in Place Concrete with Metal Stud (M. S.) framing
- Pre-Cast with Pre-Stressed or Post Tensioned concrete with M.S framing
- M.S. framing with brick, block or Siding
- Steel Framing with M.S. framing block or brick exterior

Indianization Work Surfaces

- ✓ Cast-In-Place Concrete – most expensive and time
- ✓ Pre-Cast – Less expensive, less modifications
- ✓ M.S. framing with block is the good, flexible
- ✓ Steel framing with block exterior is best, very expensive
  - *<u>Last 3 options is flexible to temple construction</u>*

Indianization Materials

- Plastic-Mart – Poly round stock tank
- Plastic or rubber moulds making for art work
  - Vytaflex by Smooth-On
- Reynolds

Moldings Method Example

Rubber Mold

Preparing Moldings for Similar work

Mold for duplicates on art

Preparing Moldings for Similar work

Product of Mold

Product from Mold

Installed at HTCI for Ganesh Shrine

Indianization work

Hands on art work

Indianization work

Hands on work at HTCI

Construction Safety

Occupational Safety Health Administration - PPE

Maintenance of Temple Building

Exterior

- Weather Conditions - Winter, Fall, Summer, Rainy Seasons
- Use maintenance free materials
  - Colored - mortar, concrete, precast slabs
  - Essroc, Type I and II Cement
  - Type N- Masonry, Non-Shrink Grout
- Use Weather resistance materials –
  - concrete fiber, reinforcement, additives, water repellents,
  - Durablock, Carlisle, Sonneborne, Sika
- Equipment
  - HVAC Condensers, Roof top units
  - Sewage (lift stations), Irrigation Systems
  - Roofing Systems

Maintenance of Temple Building

Interior

- Mechanical Equipment
  - Air handlers – *heating and cooling system(Quarterly)*
  - Unit Heaters
  - Water heaters, Sump pumps
- Kitchen Hood(twice a year)
- ANSL system(annual & once in 12 years)
- Drains, Grease Traps
- Yearly Inspections
  - Fire alarm system
  - Fire suppression system
  - Fire extinguishers
  - Exit lights, Emergency lighting, ballasts
- Security system, Video System

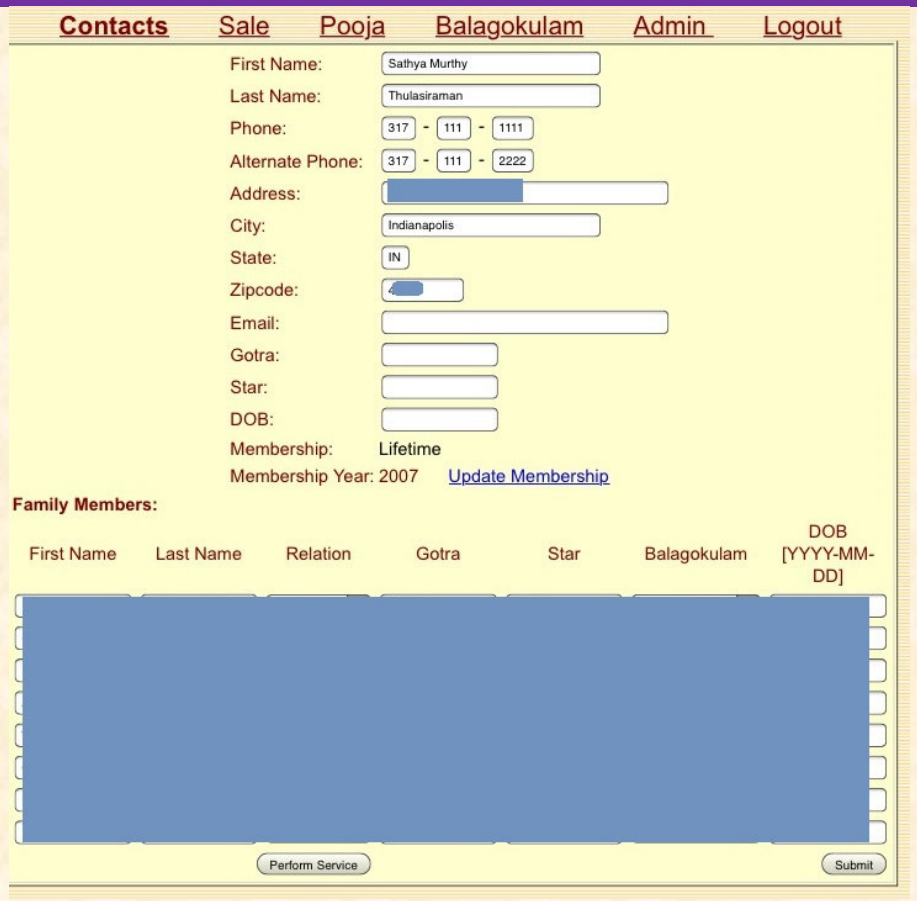
Temple Apps for Operations

- ✓ Temple Services Application
- ✓ Trello – *Task Management*
- ✓ Google Docs - *Inventory*
- ✓ Google Drive - *Storage*
- ✓ Whatsapp – *Volunteer Communication*

Temple Apps for Operations

Temple Apps for Operations

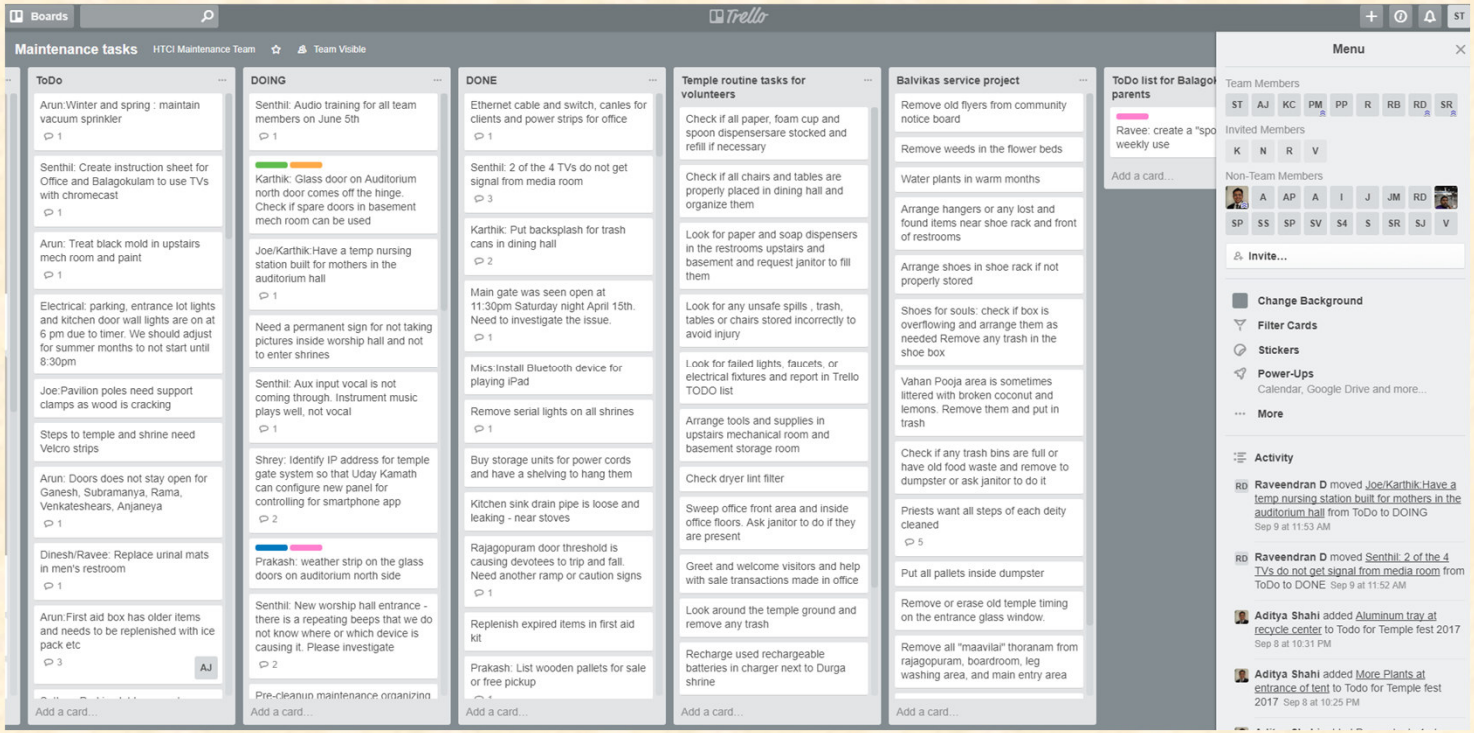
Temple Apps for Operations



Temple Apps for Operations

Trello

- Maintenance Task assignments are entered in Trello to collaborate with volunteers



Conclusion

Key takeaways

- Use Cost effective materials
- Products used should be productive and help schedule
- Regularly Inspect exterior construction
- Schedule regular preventive maintenance
- Goal is to operate temple cost effectively and durability of monument

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