Team Argo

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Overview

- Introduction to Qur'anic Botanic Garden
- Problem Domain
- Solution Alternatives
- Proposed Solution
- Feasibility And Risk Assessment
- Project Deliverables (Scope and Plan)

Qur'anic Botanic Garden

- Project of Qatar Foundation
- Introduced by UNESCO
- Inaugurated in 2007 by Her Highness Sheikha Moza
- Aims to promote the knowledge, study and conservation of plants mentioned in the Holy Qur'an and Sunnah

Understanding the client needs

Understanding the problem

Issues

- QF press sends out event news to multiple sources (news websites, social media etc) and does not send back any details
- QBG can not track their web presence unless done manually

Opportunities

QBG aims to track their web presence to:

- Track the market penetration of their event news
- Statistically analyze the performance and visibility of their programs

Directives

QBG wants a solution to:

- Replace their manual google searches for news
- Automatically return the news findings from multiple sources and saves them offline
- Is easy and reliable

Project objective:
Automate the News Aggregation for QBG

Solution Alternatives

Java Application

- Lack of third party API support
- Complicated language to debug when something goes wrong

Web Application

- QF does not allow hosted websites unless developed through them
- QBG's small team requires simple localized solution

Hire PR Firm

- QBG is a project within QF and does not have the budget
- QBG's web presence is not wide enough to warrant the outsourcing of a task that can be done manually

Argo
Capturing your web presence

Python Application linked with a Database

- Widest support for APIs
- Extensive libraries available to support the project
- Relatively easy to debug
- Economically viable
- Allows hybrid GUI for displaying results (in browser and TKinter)

Requirements and Features

Online Search

- Search multiple sources for all posts relating to QBG across the internet

- Time specific and Source specific search

- View number of new results found compared to cataloged results

Local Save

- Web posts saved as snapshots/PDFs

- Same format as the online webpage

- Database with all details including active hyperlinks

Local Catalog

- Local Database to keep track of all news and posts of QBG

- Record time stamped and save with tags of source and event type

Feasibility Study

Economic
- QBG does not have the budget to outsource

Technical
- The technical needs are bare-bones

Operational
- The organization is small and will be able to manage the system

Political
- Qatar Foundation is a big organization and there is a lot of red tape

Risk Analysis

Risks

- APIs getting outdated
- TKinter not aesthetically pleasing
- Moving System to a new PC
- Retrieval of duplicate results
- Not enough time to complete system solution

Mitigation

- Provide user documentation
- Use hybrid approach with HTML/Ruby for front end
- Provide user documentation
- Proper checks in algorithm
- Promise low and deliver high
- Planning (Gantt Charts)

Proposed deliverables

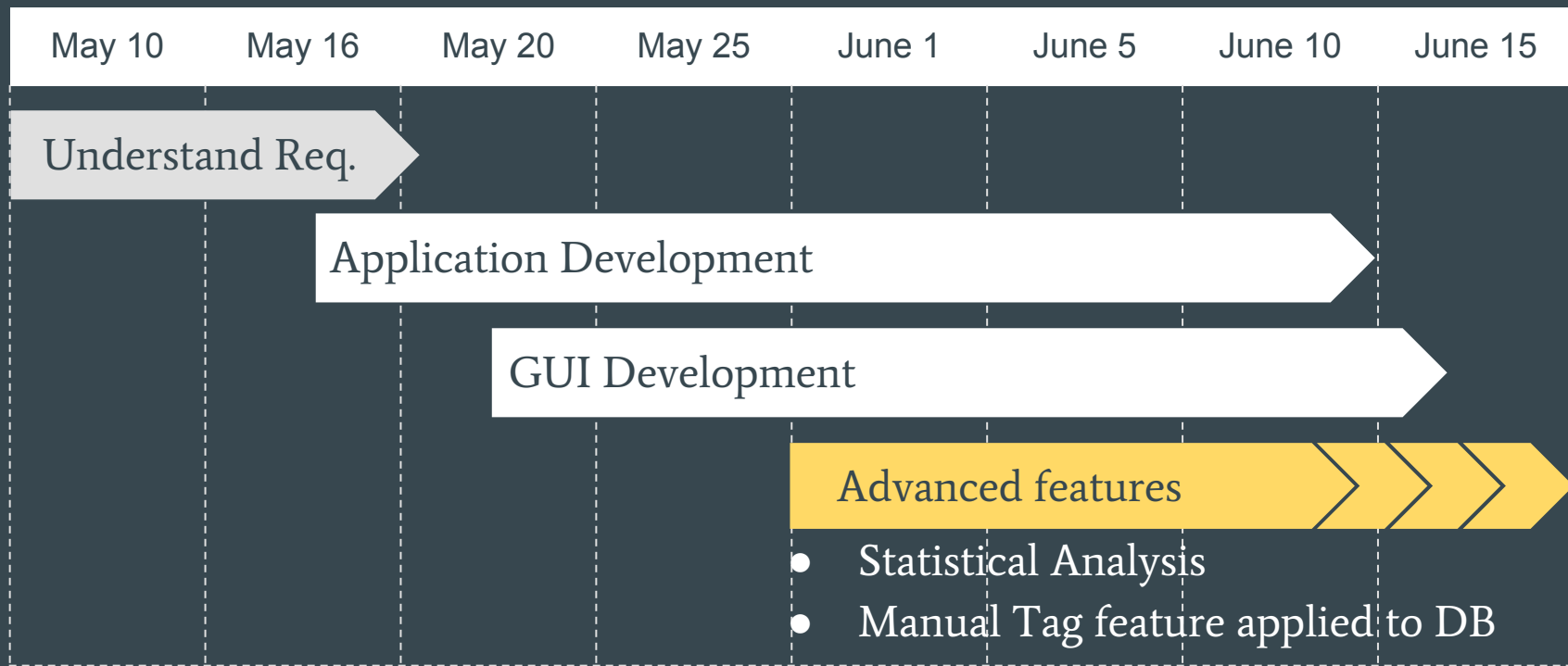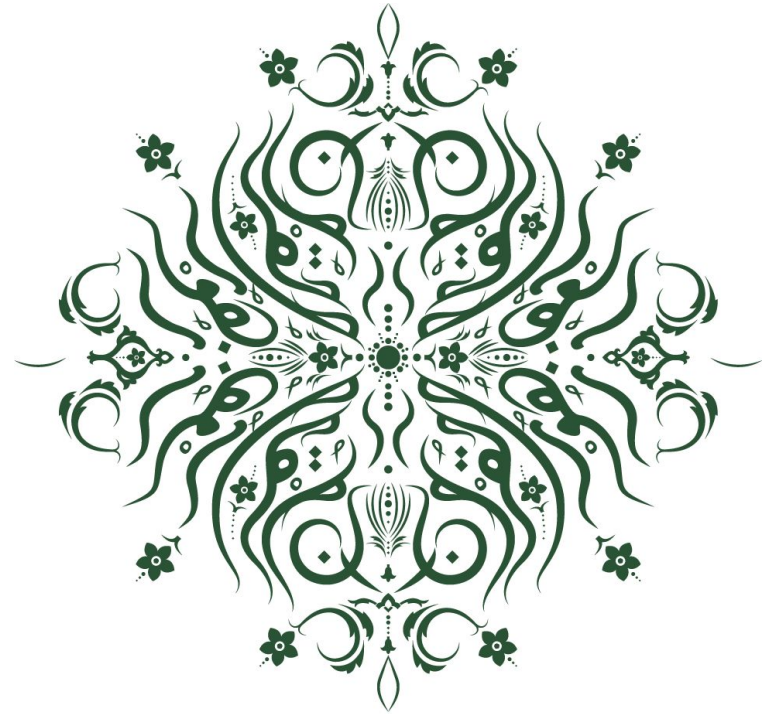| Deliverable 1	- Search feature to fetch from multiple sources - Local Database of search results
Deliverable 2	- Categorized and Searchable Database - PDFs and Snapshots of saved search results
Deliverable 3	- GUI - Installation Guide and User Manual
Deliverable 4	- Basic statistics of tagged content - Manual tags

Gantt chart

	May 10	May 16	May 20	May 25	June 1	June 5	June 10	June 15

Understand Req.

Application Development

GUI Development

Advanced features

- Statistical Analysis
- Manual Tag feature applied to DB

Thank you!

Questions?

حديقة القرآن النباتية
QUR'ANIC BOTANIC GARDEN

عضو في مؤسسة قطر
Member of Qatar Foundation