Didgah Cloud Emails Project

Summary:

The purpose of this project is to provide an overview of development progress and key milestones of DidgahTV Cloud Emails Project. The first we provide the benefit, advantages and limitation of moving the project to cloud. The other sections of the reports we introduce the team members, project milestones, scope, development process, and budget of the project.

Benefits of Cloud Computing

- Faster time to market
- Scalability and flexibility
- Cost savings
- Better collaboration
- Advanced security
- Data loss prevention

Limitations of cloud computing

- risk of vendor lock-in
- less control over underlying cloud infrastructure
- concerns about security risks like data privacy and online threats
- integration complexity with existing systems
- unforeseen costs and unexpected expenses

Overview the Current System

The current system is built on Window platform and .NET, the purpose is sending emails out to promote the vision of DidgahTV and find new members for Iran Abad Party. The system has a database with one million emails records and sends 100,000 of emails every month.

The purpose of the New System

The purpose of the new system is to transfer the database and all the functionalizes of the current system to the Google Cloud. Develop the web application for the project including backend, middle teer and frontend for the system.

Project Team and Responsibilities

1. Giv:
   - Team Lead and Finance Manager.
2. Kamran:

- Visionary and Project Executive.
3. Fariborz:
   - Design New Process for sending emails,
   - Develop API for the New Process.
   - Develop the new process.
   - Design, develop and maintain database artifacts.
   - Unix Administration, Install, remove software and maintain the system.
4. Bamdad:
   - Cloud Provision and Cloud Cost Estimates
   - Scrum Master,
     - Prepare and managing backlogs for the project (Todos and Priorities).
     - Prepare deliverables for every two weeks (Sprints).
     - Schedule two weeks sprints review and meetings.
     - Schedule Monthly Review for Milestones.
   - Design Develop Web pages
   - Design and develop the backend processes.

Project Costs for Moving to Cloud:

Product	Three years Commitment	One Year Commitment	Pay Month to Month
VM (2 CPU, 8 GB Memory, 100 GB disk Space)	$30	$41	$66
SQL (1 CPU, 4 GB Memory, 100 GB Disk Space, 200 GB backup)	$40	$68	$75
SendGird	$90	$90	$90
Total Cost / Month	**$160**	**$199**	**$231**

Estimates:
- Paying Month to Month $231 US/Month.
- One Year Commitment $199 US/Month.
- Three Years Commitment $160 US/Month.

VM and Software:
- Python Programming Language
- Java Programming Language
- MySQL Database
- VM (Linux) for Operating System.
- SendGrid for Sending Email.
- Google Cloud tools for Agile Process and DevOps operations.

Fariborz Milestone:

Fariborz Tasks	Resource	Dead Line
Design new schema for the cloud database and move the data to the cloud.	Fariborz	13-Aug-23
Design new APIs for email process	Fariborz	27-Aug-23
Develop new email process.	Fariborz	10-Sep-23
Integrate email process with Bamdad REST API	Fariborz & Bamdad	17-Sep-23
Add new tables for user roles and login	Fariborz	24-Sep-23
Integrate the batch process with web pages	Fariborz & Bamdad	10-Oct-23
Deliver the project	Fariborz & Bamdad	12-Nov-23

Bamdad Milestones:

Bamdad Tasks	Resource	Dead Line
Provision Cloud Resources	Bamdad	6-Aug-23
Design and Implement Rest API for email process	Bamdad	17-Sep-23
Design Web pages and integrate with REST API.	Bamdad	10-Oct-23
Deliver the project	Fariborz & Bamdad	12-Nov-23