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SPYRESYNC

Project Proposal

Project ID#100- 797

Project X

Prepared for:

Project X

[redacted]

Proposal Issued:
15.09.2021

Proposal Valid to:
15.12.2021

Dear Client,

Thank you for the opportunity to submit a proposal for your project.

SpyreSync provides professional consulting services to help our clients evaluate, design, test, and implement “best in practice” applications that are process, technology, and resource-enabled to provide high-quality, cost-effective solutions. SpyreSync follows the principle that our success is built upon the success of our clients. Therefore, we form partnerships with our clients in helping them provide the best service to their customers.

We hope that the proposal is in line with your RFP requirements and presents straightforward and functional solutions for every feature requested. A lot of effort has been invested in preparing this document. We would appreciate it if you can take out the time to review it, so that SpyreSync can qualify the scope and engagement of work, for the Project X and for achieving our goals.

We look forward to working with you.

Sincerely,

SpyreSync Team

Our Process

Our streamlined approach ensures we solve your challenges by tailoring our proven process to fit your unique needs.

Initial Planning

First, we meet with your team to understand your needs and create a detailed set of design and technical specifications to serve as a roadmap for the rest of the web design process.

Wireframing

Wireframes and examples are your first chance to visualize your website and give us a visual representation of the site's overall layout.

Mockups

This is the Milestone that your website starts to come to life. The backend of the website and new theme is installed. We add color and a bit more detail to the initial wireframes, giving us a stronger visual representation of the final product.

Development

This is where the bulk of the website development occurs. We finalize copy, graphics and set up your website's analytics and get to work performing SEO.

Testing

We get to work testing your site's performance and reliability. We'll benchmark your site for loading, responsiveness, and speed, while also ensuring that it works reliably and seamlessly on all web browsers and mobile devices.

Training & Launch

Your employees will be trained on how to do basic updates to the website including updating home page, news and blog posts. The final website will go live after we run a series of checks.

The Team

Our rockstar team has been helping our clients impact a wider audience since 2008.

Nadia Shahid

Project Manager

Project Manager will lead the project in terms of quality and timely delivery of the stories set out at the end of the Discovery phase. Sprint Planning will result in completed stories added to the upcoming Sprint with confirmations from Product Owner and the Business Analyst.

Ahmad Yousuf

Business Architect

Business Analyst will lead the Discovery/Analysis phase, understand the requirements and complete the flow to achieve the feature clarity for the Development team. With continuous collaboration and transparency all work is to be made available to the Development Teams and the QA in addition to the PMO office; through Jira and other collaborative tools such as Google Sheets, Docs, Miro etc. The BA with the Product Owner will groom the backlog; developing and elaborating existing stories as required.

Hunain Amer

Lead Developer and Blockchain Expert

Hunain has worked on multiple Blockchain projects including NFTs, Smart Contracts, Swapping. He will be our lead expert on the technology.

Sumia Awan

QA Manager

Quality Assurance Engineers will test project use cases, and minimize the bugs.

Ayesha

Lead Designer

UI/UX will design the interface of the system and ensure that it is user-friendly and easy to use.

Zuhaib

Engineer

Choice of tools

World-class, industry de facto frameworks, libraries, components, widgets should be chosen to accelerate development and additionally provide tried and true mechanisms to achieve product goals – this would also help in the total cost of ownership. [NOTE: THIS PROPOSAL AND BUDGET IS DEVELOPED FROM THE PERSPECTIVE OF OPEN-SOURCE LIBRARIES REUSE]

Look and Feel

A lot of emphases should be placed on the 'ease of use' and practicality aspect –the system needs to have an uncluttered look and feel, and should not look 'busy'. To the point, targeted, succinct information should be presented. Care should be taken when implementing the user interface – the user experience should not be marred by whole screen refreshes – in-line content refreshes or overlays should be used whenever possible to give a rich experience, without the need to navigate away from the page. The whole UI should be responsive, and adaptable.

The following designing principles need to be kept in mind:

- Ease of use – functionality should be self-explanatory without needed any assistance
- Simple, yet functional interface, uncluttered clean look
- Access to functionality should be available within a minimal number of clicks without the need to go through numerous menus and submenus

Reuse and Modularity

A modular approach is required for building this project – isolated, fully self-sufficient modules should allow for development in parallel, and easy pluggability (swap in/out) to keep the product future-proof.

Security

The system should be protected using role-based access, and usual authentication functionality should be available (e.g., sign in, sign out, forgot password, change password, register, activation email).

Language Recommendation

Particularly sensitive data should be encrypted (e.g., passwords) during transit as well as storage. Auditing will keep a track of actions taken by all users on the platform).

Open-source libraries will be chosen to cut down on development time and for the least cost of ownership.

Node.js is recommended for the back-end section of the system as it has the capability of handling a huge number of simultaneous requests with hight throughput. Companies like Uber, Trello, PayPal, eBay are using Node.js for backend.

Next.js can be used for front-end development for much faster page loading times, as a user's browser doesn't have to download Javascript and CSS that it doesn't need for the specific page the user is viewing.

Database

PostgreSQL database specializes in storing and managing huge amounts of data. Tech giants like Instagram, Spotify, and Netflix are using Postgres but it has a limitation of using advanced techniques for indexing, storing an searching numerous structured data type so here **MongoDB** jumps in to manage data of any structure, not just tabular structures defined in advance.

Deployment Platform

The system will be deployed on a cloud platform such as **AWS**, to provide a highly scalable and secure platform for future growth.

"Elastic Beanstalk" will be used for the server, "**S3 Bucket"** will be used for media storage and **"CloudFront"** will be used for encryption of S3 Bucket.

Web Server Platform

Nginx will be used to serve all static content, with a combination of PM2 to serve the backend application.

API's for fetching Blockchain Data

Binance API can be used for fetching the data crypto data regarding current price of ETHUSDT, BTCUSDT

Coingecko API can be used to Get market cap

Polygon API can be used to get historical data of Crypto we use this API but at the moment we couldn't proper take this API for integration due to some issues

Bitfinex API provides asset trading services for our users and global liquidity providers.

Lunarcrush allows the access of data related to cryptocurrency available on public website.

Messari provides also provides the data of crytoassets

Codexprotocol also provide APIs from where can get the real time data regarding cryptocurrency rates

But based on our R&D we are looking to get data direct from exchanges like Binance instead of any other third party, in this way we could display more reliable data and data will only be dependent on direct exchange instead of any other third party server.

Security

For end-to-end security (where needed), communications will be protected using SSL. For authorization and role-based authentication, the Node Auth module will be used. Cross-Site Request Forgery (CSRF) security will be used for HTTP post requests. Database passwords (and/or sensitive data) will be encrypted using the BCrypt algorithm.

JSON Web Token (refresh and access token) is used for authentication and authorization. It will be used for securely transmitting information because they can be signed which means you can be sure that the senders are who they say they are. Additionally, the structure of a JWT allows you to verify that the content hasn't been tampered with.

Overview

The purpose of this website is to help the users in price-tracking for crypto assets in the rapidly growing cryptocurrency space. Main goal is to display the accurate and high-quality crypto details to the retail users which might be useful in making their own decisions.

Features

Events Calendar

Users are able to quickly identify and navigate all the forthcoming crypto events all throughout the planet like culminations, meetings, workshops, shows, and articles.

Sign Up & Sign In

Users are able to sign up and sign in using email address and clicking on verification link. After signing up, user can also use reset and forgot password feature.
KYC Identity Verification includes Phone Number Verification and Email Authentication.

Charting Platform

For BSC, ETH, Poly Block Chain including main coins. [redacted]

Video Channel

[redacted]

[redacted]

- Adjust a wallet
- [redacted]
- Metrics and Analytics
- Wallets and Figures of each Token

[redacted]

[redacted] Visa Debit [redacted]

[redacted]

Global Charts

Investigate the value diagram for the chosen token acquired from the newly gathered information.

Quick Search

Search your favored digital currency or trade by entering their initial not many letters.

[redacted]

Product Goals

Web App

- Highly functional
- Pro-customizable
- Friction-free in-app functionalities.

Dashboard

- All-in-one dashboard
- Easy to use activities and overall performance.

100% Customizable

- Limitless customization options
- Immediate add-on support for quick app transformation.

Payment Options

- Secure payment options

[redacted]

Discovery Phase Scope

Summary

The scope of the Discovery Phase is to elicit all critical functionalities and features and organize them into User Stories to complement the existing diagrams such as User Flows and UI/UX Screens.

This will form the basis of the planning the four 3-week Sprints that will be able to deliver an MVP.

Due to the rapidly developing crypto world, it is challenging for clients to monitor the recent sale of coins available on the market. For them to settle on a thoroughly examined choice prior to buying a coin, they need to analyze and investigate the information available. Luckily, with a [redacted] you can create your own rundown of coins and trades dependent on genuine activities and adventures. Users are able check the evaluations of the digital currencies as per the capitalization sum, allowing them to settle on the most ideal decisions.

Execution and Plan

Development Approach

A phased approach has been chosen for the development of this project, splitting the functionality across milestones for better manageability and progress measurement. Using our **“Agile Development Methodology”**, it becomes easier for us to kick-start your project – this coupled with our collaborative project management information system, helps us in completing your project within time and budget, with a solution that is built keeping in view the most important factors of your business: attracting new customers, retaining existing ones and savings with a clear return of investment plans.

Weekly or biweekly sprints will be shared. A sprint and milestone sheet will be created and shared with stakeholders to keep track of the project. Sprint and milestones sheet will also show which modules are to be completed in this sprint and which modules will be completed in the next sprint.

It is recommended that at least 1/2 weeks be spent in **“Analysis”**, getting up to speed with the project and detailed requirements acquisition. In the discovery phase, wireframes will be designed and shared for approval. In meantime **“Project Requirements Document (PRD)”** will be created to finalize the requirements. Once the wireframes and PRD are approved, work on the development of the software will be started.

After the analysis, the detailed project plan will be developed, and the effort (and possibly the budget) will need to be adjusted based on findings.

Code will be regularly committed to our "**GIT Repository**" for version control and disaster recovery/rollback. Code will be delivered after the acceptance sign-off for each milestone.

Graphics/Theme Development: A theme can be developed for use with the app – this will be decided based on the customer's need, the concept, and reference designs. This can be changed based on client input (2 revisions). If the clients choose to bring their designs, all assets need to be provided, including images, PSDs, Adobe Illustrator Files, etc.

"Quality Assurance" personnel will be in place to ensure quality is maintained throughout the development cycle for all development artifacts ranging from technical write-ups to user interface text/labels/language. Test Cases (and use cases) can be provided and approved by the customer before development can begin.

"Meetings" can take place through telephone, skype and Zoom

Communication-related to any project is handled on **"Slack"**. Stakeholders will be added to Slack's communication channel, where the team and stakeholders will be interacting with each other for the development of the project.

Deliverables

The scope of work for this Discovery Phase encompasses the milestones mentioned to be delivered by SpyreSync.

1. Requirement Definition (Jira, Google Docs/Sheets)
2. User Flows and Stories (Miro/Jira)
3. UX/UI Design (Figma)
4. System Architecture Plan (Miro)
5. Sprint Plans (3 Week Sprint x 4)
6. Review and Sign Off
7. Final Delivery

Status Reports/Meetings: The status report should be sent out with the Client every week + Adhoc meetings when required.

The functionality provided as per the client's specs – See the **Project Overview** section for more details.

The development of the project is based on the following items:

Specs – Project X Requirements Document (A complete documentation based on project features, scope, user roles and perspective of the webapp)

Discussions – Various discussions & Calls (Modifications and finalizing of the product features)

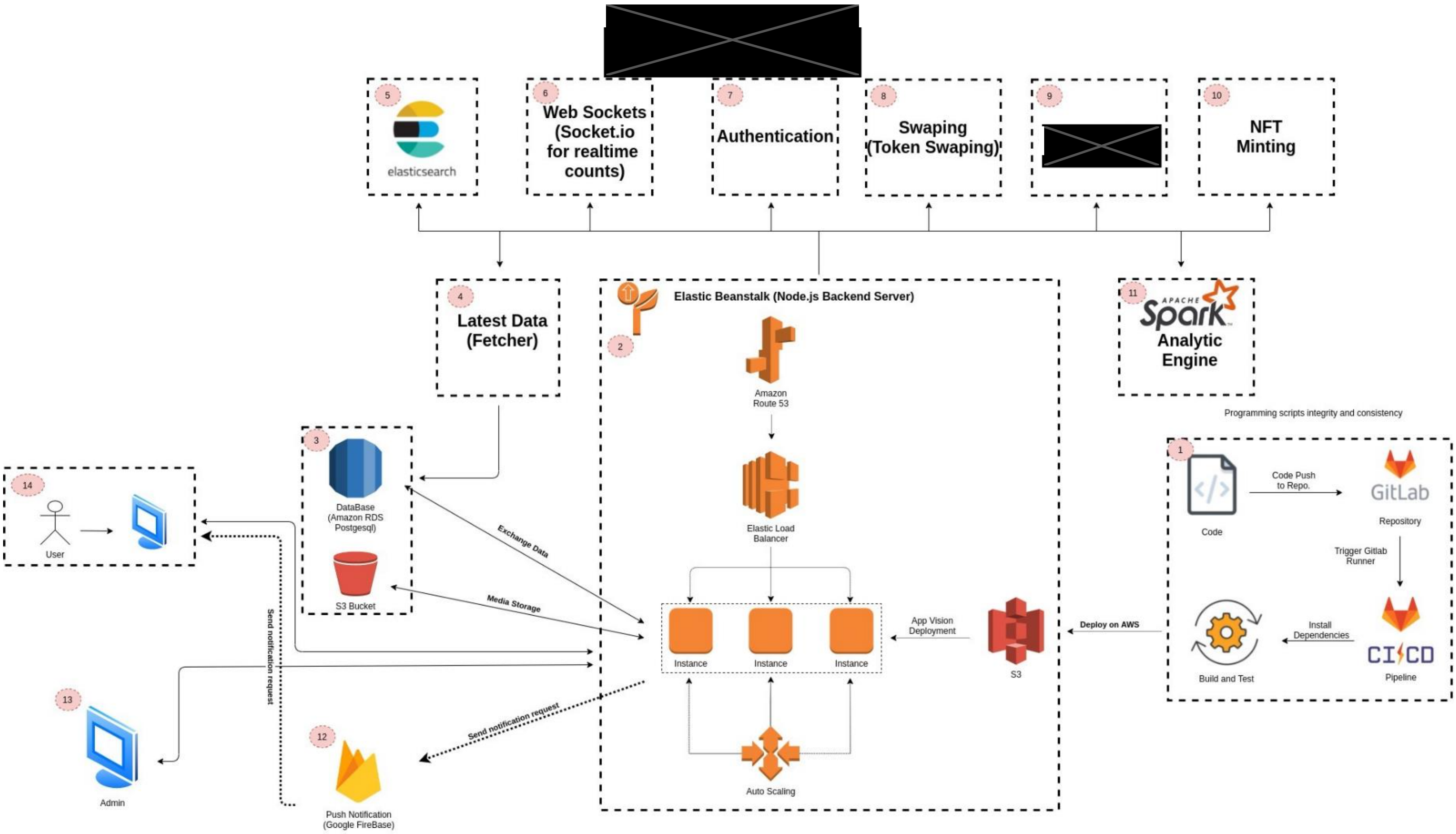
Completion Criteria

The Discovery phase will be considered complete when the deliverables described (above-mentioned project discovery milestones) have been fulfilled and delivered to the client.

A final Project Acceptance Form will be presented to the client for agreement and execution indicating completion of the project. The final deliverable will be made available after the client signs off on the project acceptance form; the final payments have been processed.

If it is necessary to change this Statement of Work, SpyreSync will initiate the Change Control process with the client.

Architecture Diagram

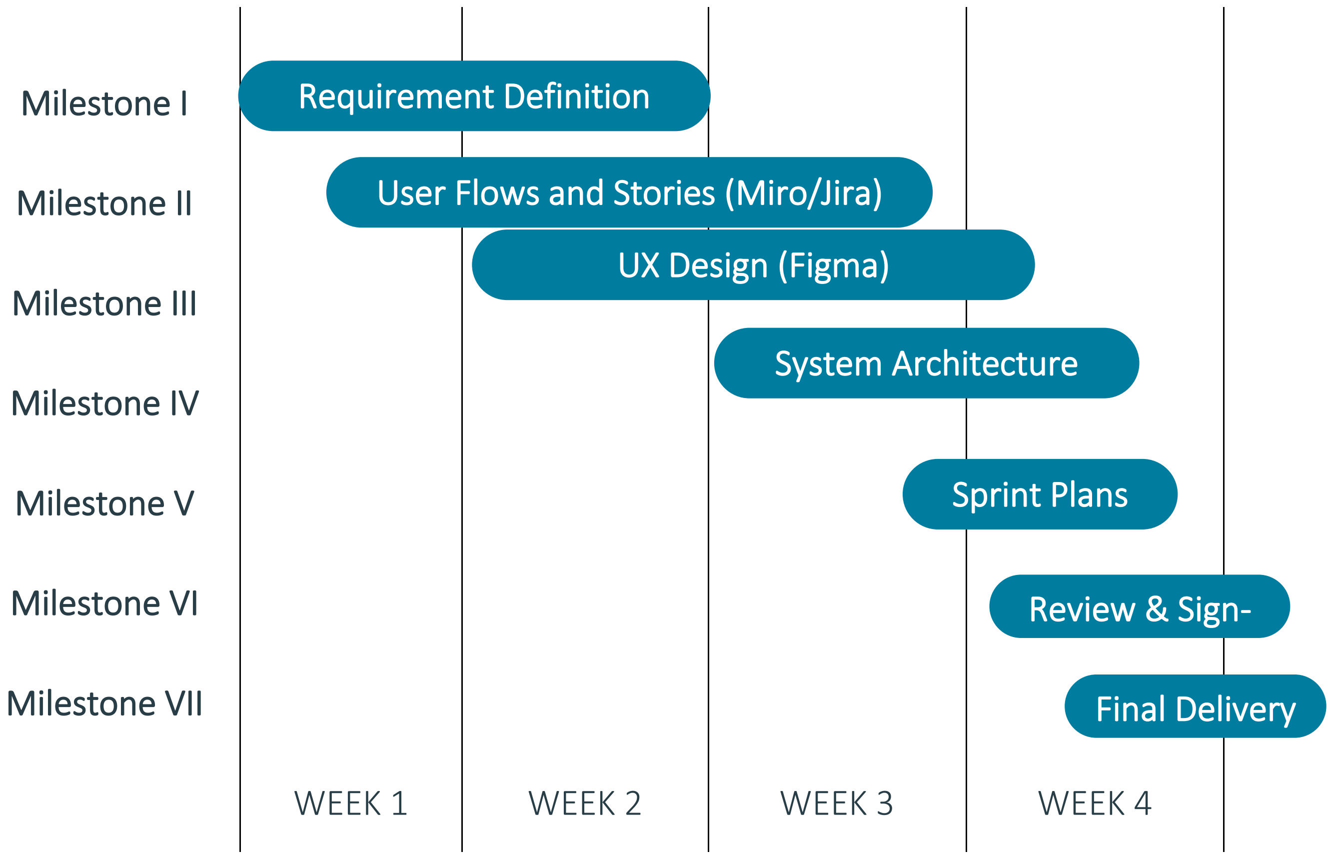


1- It manages code backup at Repository & Its fully responsible for automated deployments on production & development servers by code standards inspection.
2- It will manage server scaling on base number of requests/users, Server instance is having direct relation with number of requests/users, when number of requests/users will increase the instance will increase.
3- System storage base on two part ,all text data will save into RDMS & all media will save into S3 Bucket.
4- Fetcher will get data from API and save into Database.
5- Elasticsearch help to gives accurate & fast search experience to users. It keeps most hot searching in top results.
6- Socket.io help real time actions like price update, location, price update etc.
7- JWT token base authentication will use for user authentication.
8- This bridge will swap the ETH to BSC, BSC to ETH, ETH to Polygon, Polygon to ETH, BSC to Polygon and Polygon to BSC..
[redacted]
10- User can mint non-fungible token (NFT) while using our platform.
11- Apache Spark will use for large scale data processing.
12- Notification help user to keep update and attached with the application.
13- User can use the application via browser.
14- Admin can manage the user management etc via admin panel.

Functional Considerations

Analysis	Miro, 3-amigos, User Stories, Story Map, Agile
UI/UX Design	Photoshop, Figma
Front End Technology	Bootstrap HTML CSS, VueJS*
Mobile Application	To Be Confirmed (Product Owner)
Back End Technology	Nodejs, Nextjs, Pyhton
Database	PostGreSQL, Mongo DB
Deployment & Version Control	CI/CD, GitHub
Quality Assurance	BDD, Acceptance Tests

Schedule & Timeline



Estimated Hours for the Team

Name		Role	Hrs.
Nadia	Project Manager	PM	27
Ahmad	Business Analyst	BA	223
Ayesha	Design Lead	DL	50
Hunain	Subject Matter Expert	SME	60
Ahsan	Technical Lead	TL	48
Sumia	Quality Lead	QM	27

Discovery Phase | Milestone Description and Timeline

Milestones	Est. Duration (days)
Milestone I: Requirement Definition (Jira) This milestone will provide the list of all features and functionalities required. This will be detailed to a level that will help Analysts and Owners to easily understand and translate them in to User Stories and Acceptance Criteria. This will be provided in a document and Jira.	10
Milestone II: User Flows and Stories (Miro/Jira) This will provide a visual representation of the overall flow and journey of the users of the final product. Additionally, all requirements defined in the first milestone will be elaborated into User Stories with Business Rules and other Functional and/or Non-functional requirements. This will be available on Miro and Jira tasks.	13

Milestone III: UX Design (Figma)

This is the Mockup of the product based on the user stories created. This will be provided as Figma link that allows collaborations and feedback.	11

Milestone IV: System Architecture

This is an overview of the System Architecture planning, that will identify the frameworks and technologies to implement the solutions to the identified requirements.	4

Milestone V: Sprint Plans (Jira)

This will be a Phase 1 Development Plan, that will consist of four 3-week Sprints. The sprints will include User Stories identified as crucial for an MVP that will form the core of the Product.	4

Milestone VI: Review & Sign-Off

This will be review stage where all milestones 1-5 are evaluated to see if all objectives are achieved. PM will be generating a report after feedback from QA and the client.	2

Milestone VII: Final Delivery

Based on the feedback from the Review milestone, required changes and improvements are made before being delivered to the client.	3

Appendix 1

Terms & Conditions

Proprietary Statement

This document contains confidential and proprietary information and is the property of SpyreSync. This document was prepared for the requesting party for the sole purpose of evaluating the products and services proposed. It is submitted to you in confidence, on the condition that you and your representatives have, by receiving it, agreed not to reproduce or copy it, in whole or in part, or to furnish such information to others, or to make any other use of it except for the evaluation purposes stated above, and to return it to SpyreSync upon request.

The previous statement shall not apply to the extent that such statement violates any laws requiring such information to be made available to the public. In the event this document results in a contract, you may retain this document for use, including making any necessary copies related to the products and services covered by such contract. The offerings and prices presented in this document, excluding any quotes or rates, shall remain valid for a period of 60 days from the document date unless SpyreSync authorizes an extension.

Change Requests

If there are minor changes, we will provide these free of cost. (Example – cosmetic changes).

If we assess that the changes will cause delays to the deadline, or if it has a significant impact on the system, then we will need to go through a change management process. At a very barebones level, it is a simple questionnaire that will detail the required changes, the impact assessment report, the estimated number of extra man-days required, and the associated costs.

If we assess that the changes are too large, and cannot be made in the current development cycle, we will flag this as well - and suggest a new phase implementation.

Change Requests are charged at a rate referred to SpyreSync rate card. before the 1st half of the project. After the project is half done, the effort to implement change requests grows exponentially due to the regression testing that will need to be executed to ensure existing features do not break. Change request form is available at the end of form.

Change Request costs will have a separate milestone and needs to be paid in full before going live.

It is necessary to study release notes and test the product accordingly. Each milestone will be according to the planned milestone. It is necessary to sign off sprints.

In case a bug or error is found by the client after sprint release, the client shall report the issue within 24-48 hrs. along with proper proofs i.e., screenshots, videos, etc. After the stipulated time, changes will be carried out through Change Request (CR) only.

Once designs are signed off and development has started, they will be changed through Change Request.

Engagement Related Expenses

The client will bear all the costs agreed in the proposal. In addition to normal development services provided by SpyreSync, this can include: licenses, extra hardware required (e.g., if there is a video conferencing project, then the client is expected to provide the hardware/software), certificates, software that is not normally available through non-commercial channels. If any of these are required, they will be named as such in the SOW or communicated during the analysis phase.

All project payments must be cleared in full before the product is made live and /or before the app is submitted to the store.

With full commitment to complete a project on time there are some unexpected and unforeseen delays, which are unavoidable. That's where contingency estimation comes into taking place. Contingency costs are not included in the estimate – these are detailed separately. It is expected that the 10-15 percent budget should be allocated for contingency, which may or may not be used.

An invoice can be sent for all costs incurred on a weekly or monthly basis or based on milestones (TBD).

Wire details will be provided as part of the Invoice.

SpyreSync will not be responsible for costs such as development tools/servers/templates/toolkit licenses (e.g., normal resources that are used to develop the solution).

Professional Services Agreement

The client will have the full copyright for all the deliverables, or if agreed otherwise. This condition is also void if there is an open-source type license associated with the product (e.g., if the customer wishes to release the product to the open-source community). All Intellectual property (documents, source code, programming, algorithms, business processes, logic, graphics, designs, artwork) will belong to the client and they will have full ownership and rights to it.

- For projects that are worth more than $10,000 we normally provide a 1-month warranty (minor bug fixes, support e.g., bouncing servers, queries, etc.). For projects worth less than $10,000 we provide a 1-week warranty.
- If maintenance is required, there will be a separate SOW for Maintenance/Service Level Agreements to decide the running costs.
- If upgrades are required, there will be a separate SOW that will detail these changes/new requirements, impact analysis, regression testing requirements, etc.
- Payments are due 5 days of signing off milestone or functionality completion.
- For customer training (user manual creation, workshops) and special needs (e.g., how do I export data from the database using a custom query), a separate milestone or change request can be created.
- It is expected that queries (from both parties) must be tended to within 24 hours. If feedback is not provided within a 24 - 48 hours time limit (e.g., client is unresponsive for a few days), the project may be put on hold, and it will be pushed to the back of the work queue. Communications are resumed after an unreasonably large delay may incur a cost of at least $500 for the project under $5000 and project larger than $5000 may have higher penalty that will be decided by company after evaluating losses cause by the delay.
- Feedback must be given in writing. Feedback must be provided promptly and not left until the last moment. Failure to do so might cause functionality to be left to developers' discretion, which may not be what the client had in mind.

- During meetings, the client is expected to take notes if consultancy is provided, on discovering/refining requirements (when the client is unsure of the functionality and is relying on developers to further expand on the meaning). These must be articulated as soon as possible.
- In case, if any party wants to end the contract before time due to any reason, then they are expected to provide official notification before **30 days**.

Acceptance of Proposal

Please inspect the above scope, description of work and terms for your project, and indicate your acceptance with your signature below. We trust this proposal satisfies your needs, but should anything need clarification or adjustment, please let us know.

Sign & Date

[redacted]

Signature

[redacted] / CEO

Print Name / Title

28th September 2021

Date

Project Change Control Procedure

It may become necessary to amend this Statement of Work for reasons including, but not limited to, the following:

1. Discretionary changes to the project schedule
2. Discretionary changes in the scope of the project
3. Requested changes to the work hours of SpyreSync' personnel
4. Non-availability of products, resources, or services that are beyond SpyreSync' control
5. Environmental or architectural impediments not previously identified
6. Lack of access to client personnel or facilities necessary to complete project

If it is necessary to change this Statement of Work, the following process will be followed:

A Project Change Request (PCR) will be the vehicle for communicating change. The PCR must describe the change, reasons for the change, and the effect the change will have on the project, which may include scheduling changes, pricing, etc. A PCR may be initiated by either SpyreSync or the client based on the situation.

The designated contact of the requesting party will review the proposed change and determine whether to submit the request to the other party.

Both parties will review the proposed change and approve it or reject it. If further investigation on the part of SpyreSync is requested to determine the scope of the change, any charges for that investigation will be outlined. Both parties will sign the PCR, indicating the acceptance of both parties to the changes, which may affect pricing, schedules, and contractual commitments.

Upon acceptance of the change request by both parties, the scope of work and costs will be modified appropriately, and the changes will be incorporated into the project.

The Purchase Order affected by the change will be indicated on the PCR, and the PCR Number will be referenced when invoicing for any additional charges against the P.O.

A sample Project Change Request is provided on the following page

Project Change Request

Date: ______________________________

Requester: ______________________________ PCR Number: ________________________

Nature of the proposed change:

Reason for the Change:

Impact of the Change:

Project schedule:

Project pricing:

Other impact:

P.O. to which changes will apply:

Signatures:

SpyreSync Project Manager:	__________________	Date:	__________	❑ Approved ❑ Rejected
Client:	__________________	Date:	__________	❑ Approved ❑ Rejected

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