Technoduce
Info Solutions Pvt Ltd

NECTARCHAT MOBILE APPLICATION

Proposal Document

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Revision History

Version	Date	Author	Comments
1.0	06/05/2015	Saranraj.C	Initial Version

1. Executive Summary

Technoduce Info Solutions Pvt Ltd. is a leading Web and Mobile Application Development Company. We are a team of 45+ who are dedicated to serve the customers and have been functioning in the IT industry since 2011. Technoduce specializes in the fields of web development and mobile application development. We engage in a massive endeavor of inventing and developing multiple web and mobile applications that are suitable for all verticals of the industry.

The company customizes mobile application development for all the major platforms like Android, iPhone, Windows, and Blackberry. The company even offers solutions for cross platform mobile application development and have succeeded in completing plenty of projects. The clients of Technoduce include companies from the United States, the Arabian Gulf, Europe and more.

We are also involved in website design and development and undertake all types of website development projects which includes CMS, Shopping carts, commercial websites, e-commerce websites, social networking sites, blogs website, corporate websites, personal websites and the list goes on. We do custom website design and development.

Technoduce has a wonderful collection of products like DucePlus, DucePOS, NectarChat and more. All the products has good receipt in the market because of its uniqueness.Our developers choose the best technology that will suit your project such that the outcome is always a quality product. Our developers have good experience in handling the PHP projects with quality as well as have expertise in HTML5, Opencart, PhoneGap, Android, iPhone etc. All our solutions are SEO-friendly and can bring you more business and growth.

We are proud to present our products which have earned reputation in the market. For us, the "customer is always right". You can always rely on us for all your web and mobile application development projects. We have a good support team who will guide you at every point in time and clarify your doubts. Contact us today at our Coimbatore office and convert your ideas into reality. We are here to shape your imaginations and provide Ace developments.

2. Project Description

Project Scope

Need to build the chat iPhone and Android application like whatsapp.

Solution Type	:	Communication mobile application
Client Industry	:	Communication service

Client Objective

Client wants to build a mobile application similar to whatsapp.com.

3. Project Information

Web Technologies	:	JSP, PHP, MYSQL, HTMl, CSS and Jquery
Mobile Technologies	:	Android, iPhone
Design Framework	:	Photoshop / Fireworks

4. Our Capabilities

Team Size	:	45 Employees with different skillsets
Experience	:	Average of 3+ Years
Mobile Applications	:	iOS, Android, Blackberry 10, Windows 8, Phone gap
Web Applications	:	PHP, ROR, Python, .Net
Enterprise solutions	:	CRM, ERP, Ecommerce, Mobility
Design Capabilities	:	Web Design, Logo Design, Infographic, and Branding
Open source	:	Prestashop, Magento, Drupal, Joomla, Wordpress

Portfolio

5. Development Methodology

6. System Architecture

7. Requirements Summary

Our team has experienced Project Managers running our Project with Agile Development lifecycle. We have listed below which displays all modules of our Project.

S. No	Project Modules / Stage	Sub Modules
1	System Architecture	
2	Requirements Analysis	
3	User Interface Design	
4	Web Application Development	• Basic Website – Front end • Admin Backend (Chat server and social module back end)
5	Mobile application	• iPhone application • Android application
6	Quality Assurance	• Unit Testing • Functional Testing • Security Testing

1. Requirements Analysis

a. We need our team to understand and clarify our questions
b. Requirements clarification / meeting will be required
c. Technical clarification / meeting will be required
d. Technical or User Interface Wireframes as needed
e. Software Requirements Specification Document
f. Other relevant documents will be submitted
g. Project Initiation Meeting

2. User interface analysis & design

a. Reference: - www.whatsapp.com
b. Design will be getting approved by Client
c. Client has share their ideas before initiating design
d. After design approval, Our team proceeds to Development

3. User Roles

a. Visitor – Those who are visiting our website
b. Users – Users who are registered with our application and access the features of application.
c. Administrator – Who controls entire application, security & settings and customers

4. Process Flow Details

It explains business Logic of our application on how it works between different modules & Users. Details about application functionality will be listed separately.

a. *Signup* – Users can register with the application by using by using their mobile no, country, once the registration will be completed users can able to view their account information and access the features of nectar chat and the user will be identified by Unique Username / ID.
b. *API* – Mobile applications will call our API from their native interface to process data transaction between mobile application & web. Once it fetches related information, it will be displayed in mobile application
c. *Administration* – We will provide an application backend, where site moderator can login and manage things.
d. *Analytics & Reports* – Our system will keep generating updated reports & statistics to show recent productivity
e. *Settings* – After logging in by User, based on type of user we will provide controls to manage relevant settings.

5. Web Application Development

We have to build a customer facing website where in customers can see about us and download the mobile apps.

a. Public facing web portal
b. Provide links to mobile application download option
c. Nice Website design compare in comparison with latest mobile application sites
d. Download links for mobile apps
e. About us page
f. Terms & Conditions page
g. Contact Us page
h. Social Media's Promotion's

1. Content Management System - Administration

CMS is mainly for providing administration for moderator or Administrator for our application.

- Admin Login – Basic admin panel features
- Administrator Portal
    1. Social / Post Management
        a. Manage Users (Unblock / Block / Delete)
        b. Manage Comments (Unblock / Block / Delete)
    2. Category / Sticker's Management
        a. Add New Stickers
        b. Edit New Sticker
        c. Settings to Define Free / Paid Stickers
    3. Transaction History- Manage the payment transaction which is purchased the stickers by users.
    4. Contact Management
    5. Chat server management – It has the complete management of messages, users, plugin configuration, general chat setting and etc..,
    6. FAQ Management
    7. Ads management
    8. General / Advanced Site Settings
        a. Email Settings
        b. Contact Settings
        c. SMTP Mailer Settings
        d. Social Media Settings
        e. Manage Images
            i. Upload images / Manage Images
    9. API
        a. API has to be developed for Mobile application
        b. API has to have both post, receive data
        c. Integration to Social Media Platforms
        d. Documentation of API
        e. XMPP API
            i. For instant messaging

6. Mobile application – iPhone and Android application

Mobile users can download this app on their smart phones (iPhone and Andriod) in order to access the features chat, group chat, message...etc. within the network / organizations.

- Splash Screen with basic introduction about client's application logo
- Application should be compatible in all resolutions
- Integrate the custom design in iPhone and android application
- Application will be compatible in portrait mode only by default
- Application is available in English language by default
- User Signup
    1. Register with basic information (Mobile No, Country)
    2. Email verification / Mobile SMS verification – You have to provide the SMS gateway to integrate it.
    3. User profile page to edit information (Name , Status only)
- Import Contacts
    1. Import contacts from Mobile Phone
    2. Send Invitation to existing users
    3. Add all contacts, those who are not in the list, they will be added into account and offline
    4. When offline user Signup, their account will be activated and link to others
- Instant Messaging
    1. Initiate a new Chat Request
    2. Engage a new Chat Request
    3. Chat ID has been created for particular Chat
    4. Chat has been enabled through Jabber ID / XMPP
    5. Chat History has been stored to local database
    6. Chat History also stored in Server database (if required)
    7. User list also stored in database
    8. Smiles
        a. Smiley will be enabled for user chat.
        b. List of smiles are stored in our server and which will be linked to chat text
    9. Each Chat will have photo of who sent and date, time
    10. Location Sharing within the Groups / Individual.
    11. Ability to add more people to Chat
    12. Group Chat
        a. Add more people to Chat whom they want to be
        b. Enable Group chat request
        c. Once accepted, Send XMPP request
        d. Chat enabled
    13. Block / Unblock User / contact
    14. Remove from Chat – Chat initiator can remove one from chat
    15. Quit from Chat – One can quit from any chat
    16. Send the audio, video, photos and location in chat

- Add Contacts
    1. Can able to add a specific new contact request.
- Manage Contacts
    1. View Contacts
    2. View Chat history
    3. View Profile page
    4. Block / Unblock / remove contacts
- User location detection with GPS
- Social Feeds & Updates within the Friends Network
- Advanced Settings
    1. Profile Privacy
    2. Notification Alerts (Message, Tone Settings, Chat..etc)
    3. Chat
    4. Friends
    5. Stickers Shop (Smile's Management (Free & Cost))
    6. For purchasing the smiles using the payment system InApp for Android and iPhone.

7. Quality Assurance & Testing

We are providing very strong Quality assurance & Testing for any application that are passing through our team to make sure it is up to benchmark & secured.

a. Unit & User Acceptance Testing
    1. Make sure it is fully functional
    2. Working in required platforms
    3. Handling small issues
b. Functional Testing
    1. Make sure all logics& business flows are working
    2. Inter relationship between business modules must be working fine
c. Security Testing
    1. Up to security standards
    2. Avoiding basic injection hacking methods & other security threats
    3. Using Strong encryption method [MD5 / hash] for Password, user details, etc.,
    4. Trace is disable on the web server
    5. Maintain the application error log with in the application directory also using Error page
    6. Role based access control - all roles should have proper segregation, normal users should not have access to data, fields or pages meant for privileged users
    7. Input Controls - Data input to applications will be validated to ensure that the data is correct and appropriate. Input validation checks will detect errors like out-of-range

values, invalid characters in data fields, missing or incomplete data, exceeding upper and lower data limits and unauthorized or inconsistent control data

8. Applications should be configured to logout the users after a specific period of inactivity
9. It is not access the application posing as a high-privileged user by parameter manipulation
10. It is not possible to use a logged-in user's session for transacting via a CSRF attack
11. Autocomplete option will blocked all security pages.
12. Directory write permission will give only if required.
13. It is not possible to use sensitive information revealed by error messages to launch further attacks

8. Why our Solution suits for your business

a. **Product** - We have our own established Chat solution, Ecommerce application, POS and single Chat SDK etc..,
b. **Mobility** - Our solution works in Mobile & Web
c. **Integration** - Easy Integration with Any external platforms including your ERP, Payment gateway, Shipping gateway and SMS gateways.
d. **Open source** – We are expertise in Drupal, Opencart, Magento, Wordpress and OSclass.
e. **Customers** - We have been handling Large Organizations like JLL, Cronos Airlines, Twol24.com, Plumium Telecom and DAHL etc..,
f. **Experience** - We are specialized in web and mobile application development of ecommerce, Location based application and POS.
g. **Reliability** – Ability to add more Different types of products in future with just a small adjustments

9. Project Cost & Hours Estimation

Herewith we are explaining here about how our application estimation in terms of technical inputs on different parts of development modules.

Cost of our default chat application (iPhone and Android app) is $6000 USD. Need 15 working days to deliver the application. Also you have to provide the required server to launch the application.

Suppose if you need any additional customization like new design or any functionality, it will be additional cost.

Payment Terms:
Onetime payment – 100%

Required server:

Chat server:
Operating System: Centos 6.x x64
Processor: Intel xeon series
RAM: 16GB DDR3 (Or) 32GB DDR3
Hard Disk: 1 TB
Public IP: 2

Database server:
Operating system: Centos 6.x x64
Processor: Intel xeon series
RAM: 16GB DDR3
Hard Disk: 1 TB
Public IP: 1

NOTE:
1. Preferred kernal version below

    2.6.32-431.23.3.el6.x86_64
    2.6.32-358.18.1.el6.x86_64

2. Servers should not have CPanel or Parallel Disk. We need with SSH (Empty server) only.
3. SSH should have root username and password
4. It should be dedicated server
5. Please share the domain details to point with server
6. Bandwidth and the internet speed must be very high (10 TB to 20 TB per month) Upload and Download speed 10 Mbps speed

10. Terms

- Web and mobile apps design should be approved with 3 iteration of our design. The design will be done based on client references.
- After the Scope document is signed, the scope of the project is fixed. New requirements have to be submitted as change request and are chargeable.
- Any New Additional requirements should be consider as Change of Request (which we will handle it as new project Enhancement).
- We can have MMC (Monthly based Minimum hours for Development, Up gradation and change of request). MMC can be minimum of 80 hrs of work/billing per month @USD 15/hour and addition request will be charges USD 12/hour.
- Any high level defects will be handled within 12-24 hours of turnaround time and revert back the status to team. Based on the issue, we will be flexible.
- Lower level issues/changes will be responded within 48 hours of time period.
- The Customer will be required to undertake acceptance of the Deliverables within thirty [30] days of the completion of the Deliverables. The Customer must advise to Technoduce of any defects that are identified for correction. If no acceptance is undertaken within thirty [30] days of completion of the Deliverables, the Deliverables will be deemed to have been accepted by the Customer and the Customer will be invoiced for any charges due.

Declaration:

Hereby Technoduce declares to provide services as per outlined in this proposal and customer agrees to receive / buy services accordingly as outlined in this proposal.

Party Receiving Services (_____)	Service Provider (Technoduce)
_____ Authorized Signatory _____ Name/Title Date:_____	_____ Authorized Signatory _____ Name/Title Date:_____

Regards,
Technoduce Info Solutions Pvt Ltd, India

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