**Proposal for development of Aquarius Hydroponics Guide Application**

**Prepared For:**

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### Introduction

From our beginnings as an academic consortium to our present status as an international organization with clients around the world, Square Nest has produced and continues to produce cutting edge technology with "real world" applications.

From our first commercially successful product, creating the technology required to capture Stereosopic images with a single camera, to more current projects in the work at this very moment, you can be assured that our team is up to the task of using Applied R & D to create and test products for wide commercial use.

### Required Solution

This requirement addresses development of Web Application that will allow people to learn and use basic hydroponic methods of cultivation. The application will provide information and tools to improve diets, habits, and lifestyle. It will be helping accessing the market and community of other growers where one would be able to perfect its knowledge, exchange the ideas and accessing experts.

### Glossary

**Materials Database** - database of materials such as seeds, nutrients, etc.

**Inventory** - crops already planted or grown by a person and registered in Aquarius interface.

**Reviewer** – person who reviews Inventory and Recipes.

**Administrator** – person who manages Materials Database, Users and Reviewer’s access.

### Components and Architecture

Solution will include following components to be developed:

1. Brief schoolbook of Hydroponics Basics.
2. Operational manuals - text and video instructions and manuals:
   1. steps to crops cultivation;
   2. various growing techniques;
   3. lists of required materials;
   4. cultivation schedules.
3. Materials Database that will be managed by Aquarius administrator, who will be able to add new suppliers, edit and delete records in suppliers table.
4. Marketing subsystem that will enable Aquarius user to create and edit marketing profile (including contact phone, e-mail, address), register and edit/delete Inventory. Inventory will be reviewed by Reviewers. Inventory of particular user will be visible to other users of Aquarius.
5. Recipes subsystem that will enable users to create/edit/delete recipes on how to create/cook with hydroponic products. Aquarius users will be able to comment recipes.
6. Еxperience sharing subsystem that will enable users to create/edit/delete notes describing experience of growing particular crops. Aquarius users will be able to comment notes. Reviewer will have instruments to review and moderate notes.
7. Review subsystem that allows reviewers to review/comment/moderate the Recepies and Experience Notes.
8. Expert section where any Aquarius user will be able to ask question on hydroponics and get answers from experts.

### Duration of Work and Resources

This unit of work is expected to take 21 weeks.

### Project Scope and Budget

|  |  |  |  |
| --- | --- | --- | --- |
| Iteration | Deliverables | Duration | Price  (USD$) |
| Development of Basic of hydroponics and Hydroponics manual sections. | Basic of hydroponics web pages. | 3 weeks | 9000 |
| Continuation of development of hydroponics manual section. | Hydroponics manual web pages. | 3 weeks | 9000 |
| Development of Materials Database. | Web pages enabling to manage and search for materials suppliers. | 2 weeks | 6000 |
| Development of marketing subsystem components. | Web pages for registering merchants, registering inventory, marketing profiles. | 3 weeks | 9000 |
| Development of recipes subsystem. | Web pages enabling users to share recipes, experience of growing, and comments. | 2 weeks | 6000 |
| Development of experience sharing subsystem. | Web pages enabling users to share recipes, experience of growing, and comments. | 2 weeks | 6000 |
| Development of expert section components. | Web pages for questions to hydroponics experts. | 3 weeks | 9000 |
| Development of Reviewer tools. | Moderator tool and Administrative web pages. | 2 weeks | 6000 |
| Solution testing, adoption for mobile devices, and preparing for release. | Aquarius web application ready for deployment. | 3 weeks | 9000 |
| Total |  | 23 weeks | 69000 |

### Support

We provide 2 months’ warranty for bug fixes if errors appear on a compatible devices and supported platforms. The warranty does not cover issues resulting from any third-party modifications, not from requirement and scope changes.