

May 3, 2017

Dear Applicant,

In an effort to better assess your abilities and determine you are the right candidate for the job the following task should be attempted best as possible within the completion deadline. Please see information below:

Recruiting Tasks

One of the following web applications should be developed or created, using any language of your choice that you are proficient in:

(1) Create a simple Task Manager

Users should be able to:

1. login
2. view the list of all tasks
3. filter tasks based on status, priority, due date, category
4. create and submit new tasks
5. update or delete tasks already submitted

Tasks will have:

- Description
- Category
- Due date, recurring date
- Notes
- Email reminder
- Set priority
- Tasks can have subtasks

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(2) Create a simple question & answer web app (similar to stack overflow)

Users should be able to:

- login
- view the list of all questions
- search for the questions by tag
- create and submit questions
- update or delete questions already submitted

Questions will have:

- Auto generated id
- Subject
- Description
- Category
- Tags
- Answers
- # of views
- # of votes

It is expected that the solutions for the applications above, must consist of the following layers and done using Object Oriented Programming (OOP) Practices or within an OOP way:

- A Server-side (Back-end)
- A Client-Side (Front-end)
 - Inclusive of JavaScript
 - JavaScript Frameworks (Optionally welcomed)
- Database of your choosing

The concept of user management, at a minimum, should be modelled and handled via a database interaction of your choosing in a secure way. The differentiation between a regular user and an admin must be present.

Bonus

**It is a common practice in web applications to have the added feature concept of notifications as it gives usable information towards how responsive the application is and insightful feedback by confirming actions completed.*

- Add a notification system or module that displays messages for the following when:
 - CRUD operations are completed
 - Error Handling occurs
 - Long running process is happening
 - Any other use case not listed can utilise this feature with brings value.

Deliverables:

- 1. Packaged Source-code of your application solution (.zip)**
- 2. SQL Script of your database**
- 3. Additional Instructions to run or host your solution as you have intended inclusive of the following (.doc or equivalent):**
 - a. Dependencies (applications that need to be installed to run your app or configurations you**
 - b. Configurations required by application**
- 4. The recommended folder structure of the project is as follows for submission:**

<ApplicantName><PositionAppliedFor>.zip includes:

 Code	20/2/2017 3:34 PM	File folder
 Dependencies	22/9/2014 10:25 PM	File folder
 Documentation	22/9/2014 10:25 PM	File folder

Example: HarryPotterJuniorDeveloper.zip



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Please package and send all deliverables to javanie.campbell@smsja.net
hillary.smsja@gmail.com no later than 11:00AM on Thursday May 11, 2017. Send all queries to
the same email address.

You may be asked to discuss your solution whether feature complete or not.

**Additional research may be required to implement.*

N.B:

This is not a billable activity and you will regain all rights associated with your work.

Regards,

Hillary Evelyn

Business Analyst / Account Manager