Sorting Hat Feature

This feature is responsible for sorting people into development groups. Registered users, who are logged in, can fill out as much information on the form that is applicable to them, in order to get sorted into a project group. It takes all filled out information and sorts it based on closest matches among submitted forms.

The form is detailed and will cover as many aspects pertaining to each individuals experience, interests, and skills. The user will fill out each language they know and the amount of time they have worked with each one. There will be a field to include languages that a user can specify languages they do not want to work in to avoid discrepancies between finalized group members over codes to use. The form will also cover areas that interest the user, such as something they may want to build, or something they want to further develop their skills in (ie. Want to develop in php for more experience).

A user may sign up for one project at a time, but once the project is completed a user can update and resubmit their form to become part a new project. A user may participate in as many projects (at different times) as they wish, there is no limit constraints so a user can participate in many different projects to develop different skills.

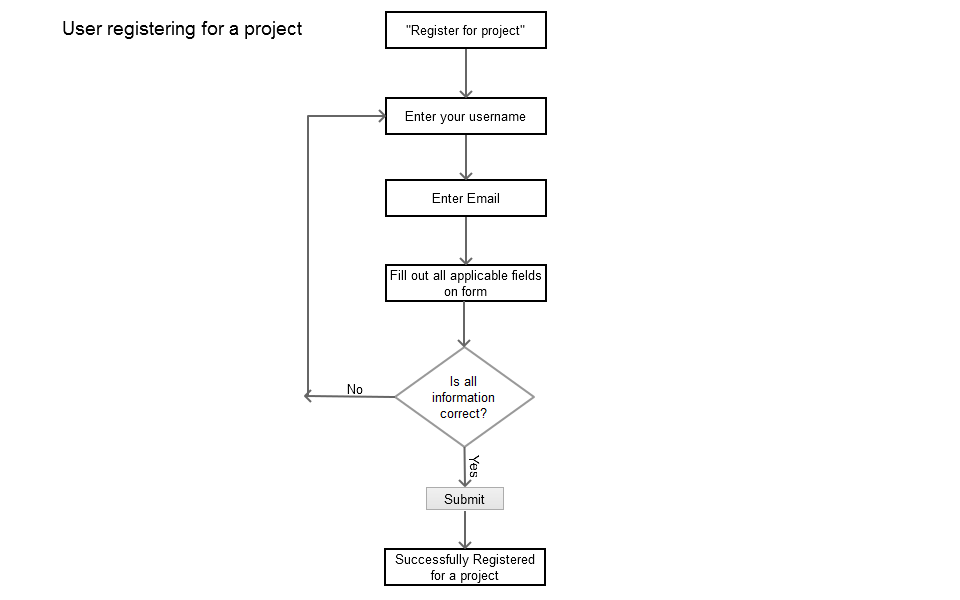
* How to add additional fields to add multiple languages experience… and make fields in database for that? Can’t anticipate every language.. plus would take up lots of unnecessary space.
* Should a project be assigned to people who don’t express an explicit interest in what they want to make? … how should project decision be handled perhaps
* Think about project limits

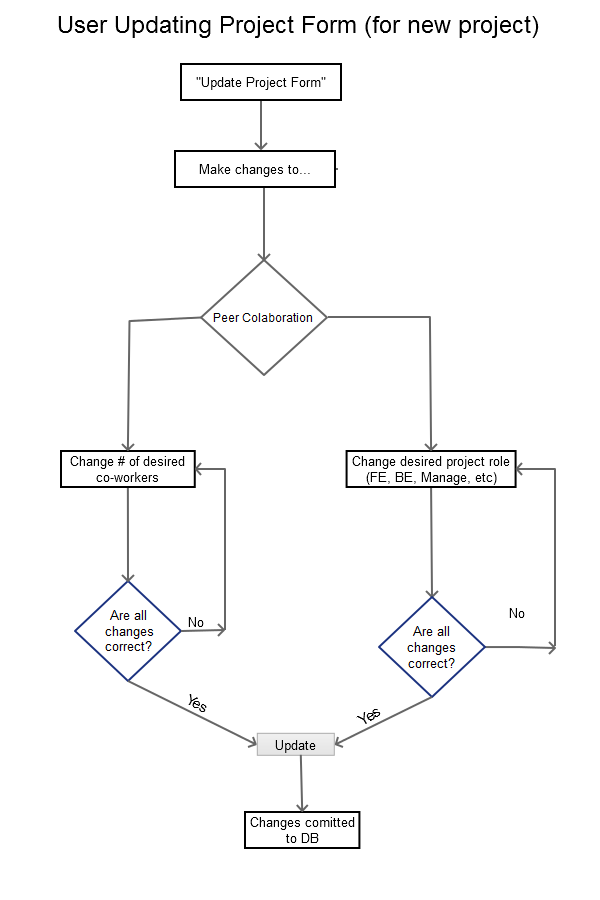
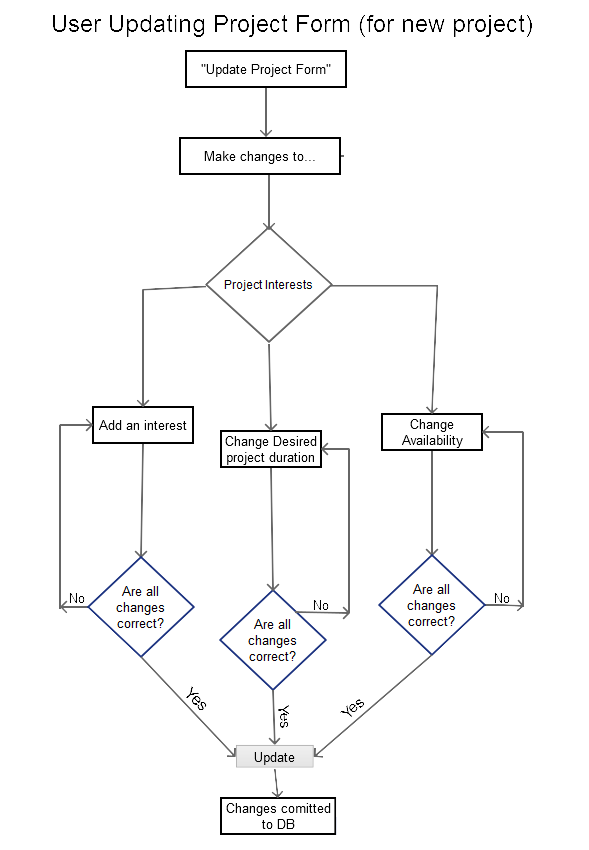
**Database Table**

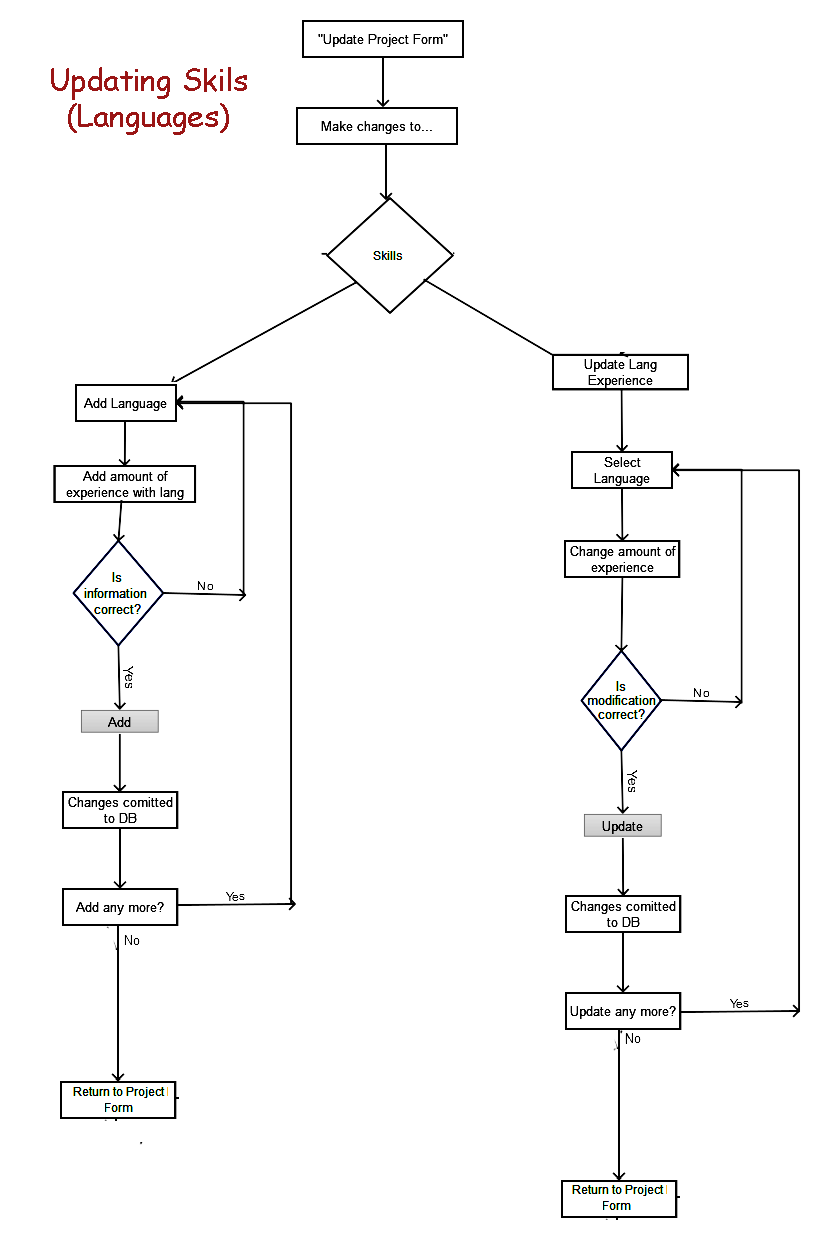
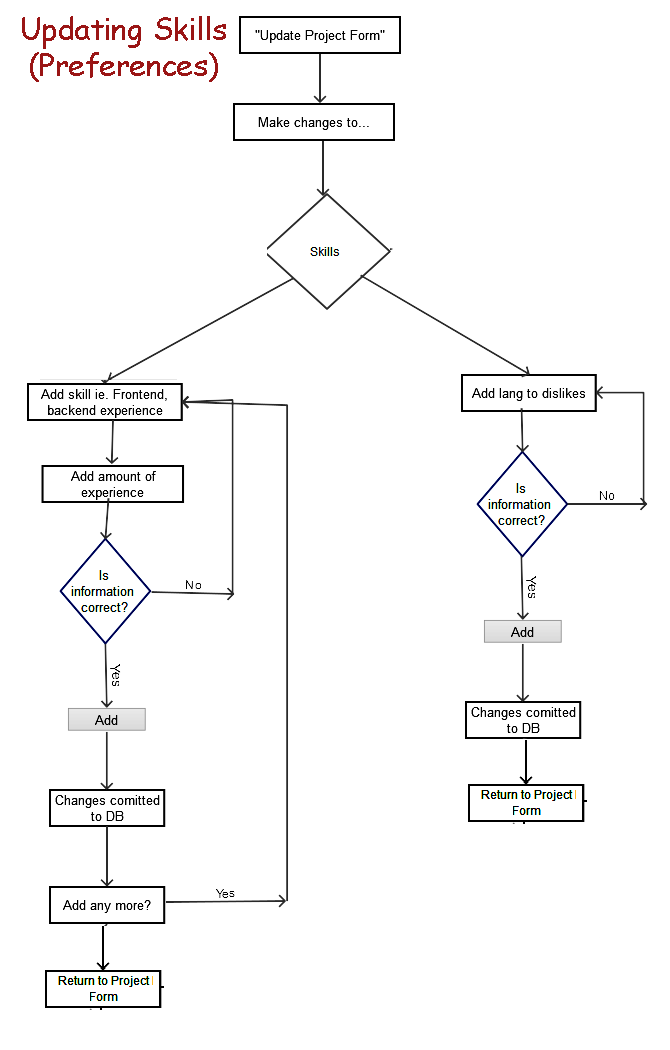
|  |  |
| --- | --- |
| ID | INT unique PK |
| Username | VARCHAR(15) Unique |
| Email | VARCHAR(30) |
| Languages | VARCHAR(30) |
| Ex\_For\_Each\_Lang\* | VARCHAR(30) |
| Lang\_dislike | VARCHAR(30) |
| Lang\_Preference | VARCHAR(30) |
| Manage\_Exp | Yes/No |
| Years for Man | VARCHAR(10) |
| Interests\* | VARCHAR(30) |
| Role Preference | VARCHAR(30) |
| No\_Peer\_Pref | INT (1) |

* (\*)How to support answers that will very in number and answer

**Dataflows**

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