CS260 Coursework 2

1 Introduction

This document indicates our current understanding of the proposed project, and will be used alongside Deutsche Bank to clarify our position. We detail and analyse the requirements for a proposed mentoring software platform which should function internally at Deutsche Bank. Many employees want a broader understanding of how different departments within the company work in unison to successfully complete business projects. Alongside this, employees may also have weaknesses in certain business areas, which could be improved by working with more experienced people in different departments. A robust mentoring software platform would solve these issues, by appropriately assigning users knowledgeable mentors who could help them at a personal and professional level.

2 Glossary

- Mentor: The users who can approve a requested meeting and select confirm a date.
- Mentee: The users who can request a meeting in a series of targeted dates.
- **Plan of action:** The future task and achievement milestones that can be created by mentee and mentor, and mentee can mark it as complete or not.
- Meeting: This is the event that is held by a mentor and a mentee in a specific time duration. Mentors teach business knowledge to mentees. After the meeting, all users are available to provide feedback.
- Workshop: This is an event that is held by multiple people. The main purpose is to major in mentees' weaknesses.
- **Feedback:** Mentor and mentee can summarise a review with each other, based on their behaviours and sentiment during the whole training period.
- Group session: This function is nearly the same as a workshop, except there is no set topic.
- Event: A broad term that means meeting, workshop or group session.

3 User stories

User A has recently graduated from university, and has joined Deutsche Bank in the Human Resources department. Coming from a non-technical background and being thrown into a very tech focused environment has led the user to believe it would be beneficial for them to have a general idea of the technologies they were using worked under the hood. They would therefore like to be paired with an experienced mentor who knows the inner workings of Deutsche Bank's technology system.

User B has been working as a manager at Deutsche Bank for 7 years, and has mentored many employees throughout the years. The user notes that many of the mentees have a keen interest in how conflict in the workplace is handled from a managerial position. Rather than having to teach the same principles repeatedly for each mentee, the user would like a system that would allow them to create group sessions where these management principles could be taught to multiple mentees at once.

User C has recently started mentoring employees at Deutsche Bank, and would like to do as much as possible to ensure their mentoring actually provides value to the mentees. Whilst the user believes the sessions are productive, there's no formal way for them to attain mentee feedback. The user would therefore like a system where mentees could provide feedback after each session. This would then allow the user to make changes about the way they mentor, to maximise their value to each employee.

4 Functional requirements

Functional requirements	Justification
F00 (Must Have) The user can register an account. The user will	A user account system is necessary for users to
be able to create an account by providing an email and password, and	identify themselves and to access the application's
add data about themselves.	functionality.
F01 (Could Have) The website will teach new users with tutorials.	Users are provided enough information to fully un-
The first time after the account is created, a tutorial for the major	derstand the application's features and function-
features of the website will be provided.	ality.
F02 (Must Have) The user will be able to log into their account	User accounts are required to match up individu-
using their email and password and reset their password via email if	als. Being able to reset the password by email is
they need to. The system will check the database to see if a matching	important as people often forget their passwords.
account exists, and send a password reset link if required.	
F03 (Must Have) The site will employ good security practises.	Security is crucial to ensuring that any registered
Such as hashing/salting passwords and sanitising user input.	user's data is protected.
F04 (Must Have) The user will have a profile page, allowing them	Users must be able to update their profile page
to view and modify data. Data includes: their email address; their	to keep the system up-to-date, and the profiles
name; their job title; whether they want to be a mentor, mentee,	must include their basic information along with
or both; their business area; 1-5 strengths; and 1-5 weaknesses. A	weaknesses and strengths in order for the system
"save" button will be used to update any modified data and ensure	to suggest possible mentor and mentee pairing.
that no essential data is left empty.	
F05 (Must Have) Any changes to the profile which will break	This forms a good compromise between maintain-
the rules of mentoring between current relationships will notify the	ing the rules of mentoring, and not accidentally
user. The notice is a warning and still allows the user to break the	breaking good relationships
relationship.	

F06 (Must Have) Allow mentees to request a mentor, who will have strengths matching their weaknesses. The system will add the	In order for mentors to be paired with mentees mentees must first seek a mentor by specifying an
user to the list of people looking for mentors.	area of weakness.
F07 (Must Have) When selecting a mentee, a mentor will get access to their profile to help the mentor make a decision. Data will	This allows the mentor to gauge which mentee i most suitable to them, adding a human elemen
include their name, strengths, weaknesses, job title and business area.	to the matching process.
F08 (Must Have) Mentors will be able to select mentees to mentor	This complements the above requirement by sup
from a list of mentees who satisfy the rules of mentoring, ordered by the likelihood of them being a good match with the mentor. The list	plementing the human element of matching with a computational one which filters invalid matches
will be filtered to exclude invalid mentees, e.g. same business area,	and encourages ones which would be good based
and the total order for the list of mentees to select from will be based	on feedback and aggregated metrics.
on matching metrics using data stored by the system.	on recuback and aggregated metrics.
F09 (Must Have) When a mentor selects a mentee, the mentee	This allows mentees to view the profiles from their
will be able to accept or reject the offer of mentoring. The mentor	available mentors and choose who they see th
	· ·
profile is shown, and, if rejected, the mentee will then not be shown	most fit, and avoids mentors repeatedly requestin
to that mentor for a specified period of time.	mentees in a short time.
F10 (Must Have) Mentors will be prompted to select mentees	Mentors should always have someone to mento
if they are not mentoring anyone. Mentees will only be allowed to	if there is any mentee compatible with them, a
have one mentor at a time. Mentors can have several mentees if they	otherwise there may not be enough mentors.
want, however the system must follow the rules of mentoring.	
F11 (Must Have) Both mentors and mentees will be able to ter-	Termination of any mentor/mentee relationship
minate the relationship at any time, and feedback should be required	can be due to reasons of poor fit. Feedback i
for why it was terminated. This feedback includes a numerical rating	also necessary for mentors to improve their men
and text to be shown to the other person.	torship.
F12 (Must Have) Mentees will be able to propose a meeting,	This follows the first rule of mentoring where th
providing a brief description of the agenda of the meeting, and/or	mentee must drive the relationship whenever the
the category it relates to. The agenda will be free text whereas the	need unblocking.
category will be from the discrete list of strengths/weaknesses.	need anote emily.
F13 (Should Have) Mentors will be prompted to suggest three	This is to allow for flexibility in meeting time pro
meeting start/end times that would work for them (and info about	posals by the mentor, whilst still following the rul
where it will be). Must ensure that the meetings are not at the same	of mentors giving up time/
·	of mentors giving up time/
time as another event in the system.	En a martin a trans about hath martin and h
F14 (Must Have) Mentees will be able to either accept one of the	For a meeting to go ahead, both parties must b
meeting start/end times, or send a request back to the mentor asking	free for it. This confirms this, given the above re
for more meeting start/end times. The mentor must give up time to	quirement of mentors suggesting times for meet
the mentee so this cycle is required.	ings.
F15 (Must Have) After the end time of the meeting has passed,	This is to allow the recording of discussions and
both users will be prompted to provide feedback on the meeting.	for the users to reflect on the meeting where nec
They will summarise the meeting with a free text field, and numeric	essary.
metrics, and whether the meeting was attended and be able to see the	
other's feedback.	
F16 (Must Have) Plans of action for a mentor/mentee pair will	This is suggested by the mentor and followed
be able to be created by both parties. The system only allows for	through by the mentee when possible to resolv
plans of actions to be created between a pair of people.	the weaknesses of the mentee.
F17 (Must Have) New milestones will be able to be added and	Plans of action have milestones to keep track of
modified by both parties, being either personal or professional, hav-	the progress made by the mentee. It is important
ing a description, a priority, and a target completion date. The	for the mentee to have set goals and priorities t
description will be free text, priority and a number and completion	work towards.
date.	
F18 (Must Have) Milestones will be able to be marked as com-	This ensures that the mentee is able to see the
pleted by mentees, and if a milestone has not been completed after	progress, and the mentor can provide further guid
its target completion date, mentees will be prompted to mark it as	ance to the mentee if they remain on a mileston
complete or update its target date. This prompt will be given the	for a prolonged period.
next time the mentee signs in.	ior a protonged period.
F19 (Should Have) General feedback will be able to be provided at	This is so feedback can be provided outside of in-
•	This is so feedback can be provided outside of just
any time. Including free text submissions and updateable numerical	meetings and termination of relationships.
metrics, and feedback for specific topic areas will be provided in the	
same way to refine the suggestion process.	
	Experts are able to run workshops to cover a spe
F20 (Should Have) If there are enough people with a specified	
F20 (Should Have) If there are enough people with a specified weakness, people identified as experts in that area will be prompted	cific 'weakness' topic extensively and potentially
F20 (Should Have) If there are enough people with a specified	

F21 (Must Have) To create a workshop, the user will set a work-	Information on the workshops can be viewed on
shop start/end, and a brief description of what the workshop will	the dashboard on the site. The description should
cover within the specified weakness category. The workshop will then	provide attendees an idea of what the workshop
be registered as an event within the system that anyone can go to.	will focus on.
F22 (Must Have) Group sessions will be created, run, and re-	Group sessions are equivalent to workshops within
viewed in the same way as workshops.	the system, with the one difference outlined in the
	glossary not being in the system.
F23 (Must Have) Signed in users will be able to submit feed-	Feedback/bug reports is crucial to the mainte-
back/bug reports to the system. There will be a button at the top of	nance and further development of the application.
the dashboard that allows you to go to the feedback screen.	
F24 (Should Have) The user will be able to disclose security	System administrators must be made aware of
issues. There will be a security.txt file for responsible disclosure of	any security issues, so they can resolve them
security issues - not necessarily requiring the user to be signed in.	promptly/
F25 (Must Have) The system will have a dashboard that gives	Users must be able to navigate the site easily,
a personalised view of the users current meetings, plans of actions,	so a dashboard where important notifications are
workshops/group sessions and access to the profile page. This will	shown will facilitate this.
be the main page the user gets placed on when they log in.	
F27 (Must Have) Users will be able to see a list of current work-	This will allow users to easily select workshops
shops. It will be an ordered list of workshops grouped into weeks and	most relevant to them.
then ordered by rating, which can be filtered by the users weaknesses.	

5 Non-functional requirements

Table

6 Team organisation

6.1 Team roles

Table

6.2 Scheduling

In-person group meetings Monday and Friday, as well as additional meetings or collaborative work time to help meet deadlines. Monday meetings to see progress on weekend tasks and set tasks for the week, Friday meetings to see progress on week and set tasks for the weekend.

6.3 References

References