

## Student Employment Portal

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#### 1 Context

The Counselling and Careers Development Unit (CCDU) at Wits requires an improved Student Employment Portal (SEP). While this service is available to the University to fill short-term and part-time vacancies, this service is to be availed to external companies so that they may more efficiently recruit students without assistance from CCDU personnel. This proposal is prepared based on consultations with Wits ICT and the following documents provided.

- WITS INFORMATION AND COMMUNICATION TECHNOLOGY, Business Requirement Documents CCDU Student Employment Portal, Final Version, 03 November 2022.
- Student Employment Portal Presentation

As there are numerous features, this project has been broken down into multiple phases. This proposal is only to address those features deemed to be essential for phase 1.

#### 1.1 Objectives

The primary features in scope for phase 1 are as follows:-

- Incorporate CCDU links and material from their current website <a href="https://www.wits.ac.za/ccdu/career--job-search-resources/">https://www.wits.ac.za/ccdu/career--job-search-resources/</a>
- CCDU social media links can be added to the site
- Allow external employers to register, create posts and view applicants
- Allow CCDU administrators to approve employer registrations and each post.
- Students are to be able to create a digital profile (CV). This will enable the students to apply for multiple posts using the same digital profile. The actual generation of a pdf document of the CV is out of scope and will be tackled in the subsequent phase.
- Students to be able to view and search adverts
- When a student applies, the digital profile is automatically linked. The student is required to upload other requested documentation such as transcripts, certificates, etc.
- Students to track their job application history
- Enable notifications through emails
- Provide summary reports such as stats on number of visits, completed applications, vacancies per time and a few other simple metrics.

Implementing the above features means that this application can go into production and enable CCDU to start generating revenue while new features are being developed.

#### 1.2 Future features

Meeting the objectives above is just the start for this application. Future features in subsequent phases of the project (ie out of scope for the current implementation).

 Create a formatted CV in pdf format using their digital profile – document formatting is tricky and timeconsuming.

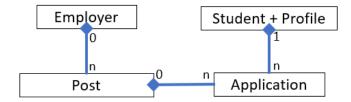
- Allowing an employer to withdraw a post due to unforeseen circumstances such as being unable to secure
  funding. All students will have to be notified and the implications of such an action must be understood
  before attempting this feature.
- Upload qualifications alongside the students digital profile so that they do not need to be uploaded for each application. Each application might only require the cover letter to be uploaded. This will reduce the number of documents uploaded.
- Allowing bursary applications to be submitted online. This feature will most likely reuse the standard job
  posting functionality.
- Events and RSVP management
- Advertising
- Creating a single merged pdf of all uploaded documents so that the Employer may download one document.
- Improve security by introducing One Time Pin (OTP) when logging in through emails.

The actual features for each phase will be established and prioritised in consultation with Wits ICT and CCDU.

#### 2 Solution

#### 2.1 Entity relationship

The entity relationship identified is shown below.



- An **Employer** may have 0 to n number of Posts
- A **Student** will have their details and profile
- A **Post** can have 0 or more **Application**s submitted by the Students
- Students can have 0 or more Applications for different Posts

#### 2.2 Roles

The application roles are as follows

- **Employer** may be an external recruiter or Wits staff member seeking students for employment. Employers will create posts and be able to review applications.
- **Student** will create their digital profile and use that to apply for posts.
- **Approve** is typically designated CCDU personnel that will approve Employer registrations so that they may log in to the system. They will also approve each post before it goes live on the site (visible to the students).
- Admin a person who is able to remove users as and when required. This is a standard function for any app and is not described in this document.

#### 2.3 Design considerations

The following considerations were included when designing this solution:

- Minimise data entry as well as minimise re-entering the same data.
- Ensure appropriate security measures in terms of POPIA as it will now contain sensitive information for students. This is not a concern for this exercise but be mindful.
- Track all post applications to create full history for data analysis purposes.

#### 2.3.1 Performance testing

This application is expected to be used by a larger number of students and there is a possibility that the server may experience more traffic, causing performance (response time) to degrade. The application being designed is not handling any complex logic. The only potential bottleneck is the document upload as that consumes bandwidth. The proposed approach is to launch the system slowly and focus advertising to targeted groups of students to minimise traffic. Alternatively, additional servers can be used with a load balancer to increase capacity to handle more traffic.

#### 2.3.2 Potential security vulnerability

Users are required to log in before they are permitted to upload a document. Any malicious attempt can be traced to a user. Some users may upload malicious files that may inadvertently consume all resources resulting in the services going down. It may be worthwhile exploring using a third-party service to verify a document prior to upload. Such assessments and decisions will be made based on where the solution will be hosted.

#### 2.4 Glossary

**AD** – Active Directory is a database that contains all the details of the Wits users so that it can authenticate and authorise users to log into different services.

**API** – Application Programming Interface enables one to securely query Wits ICT systems such as AD for authentication and send email notifications to users.

**CCDU** – Counselling and Careers Development Unit

**POPIA** – Protection of Personal Information Act

**SEP** – Student Employment Portal is the system that is being proposed.

#### 2.5 Assumptions

- All staff and students have a wits email account which will be used to communicate with them.
- Access to the hierarchy of faculties and departments (copy) to populate cascading dropdown boxes through APIs availed by Wits ICT. For this exercise, we will not have access to this information.
- A post may be filled with one or more candidates
- Students may apply for as many posts as they desire in future, we can impose embargoes or apply other limits based on data gathered through actual usage and lessons learnt.
- Students are classified by year of study and faculty which is required for filtering purposes.

#### 2.6 Uncertainty

- The system will probably be deployed to Cloud. For this exercise, we will definitely host on a local machine. If possible, we can explore publishing it on Azure or AWS.
- The system will need to manage the external user log in and allow internal staff to be authenticated via AD. For this exercise, we will run this as a completely stand alone app.

#### 2.7 Dependencies

CCDU to provide legal wording for use on the site specifically for

- Terms and Conditions of use of this site (app) Text will be provided
- POPIA: the intended usage of the data gathered Text will be provided

We would also require Wits ICT to grant access to APIs for

- login validation through AD,
- · hierarchy of departments' information and
- · email server gateway for outgoing messaging by emails

#### 2.8 Login

Login validation will be done through Active Directory (AD). Logins for external users (employers) will be managed on the system.

Students and staff can login with your staff/student numbers.

External recruiters, please register first to obtain a login



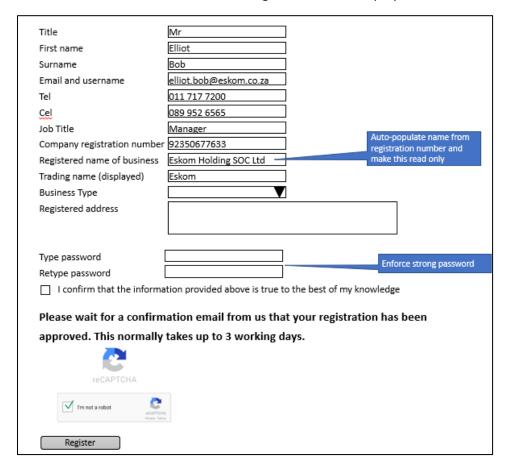
Upon first login, users will be asked to accept the terms and conditions before proceeding.



#### 2.9 Employer Journey

#### 2.9.1 Registration

Wits members of staff do NOT need to register. External employers need to do so with the following information.



The company registration number will be used to prevent duplicate entries and different spellings for the same company. This will simplify reporting by Employers. The remaining information may be used for verifying the Employer so that they may be invoiced for use of this service.

The email address will also be used to ensure that there are no duplicate registrations. In other words, an employer may register only once with that email address. If they forget their login credentials, they will have to reset their password using the *Forgot password* function.

Upon registration and email will be sent to notify the Admin of a pending registration. The assumption above is that it may take a few days for the registration to be verified.

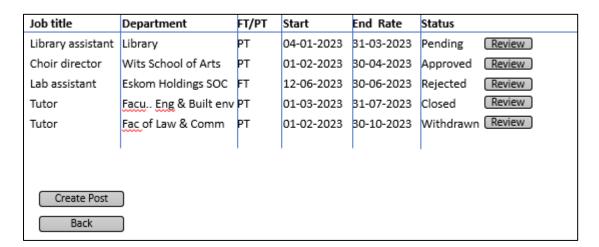
An employer can only log in once the registration is approved.

An employer may also edit the details of the company. Only selected fields may be edited and that will be defined later in conjuction with the client.

#### 2.9.2 Manage Posts

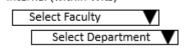
User story: As an employer, I wish to create posts so that I may receive applications.

The following view shows some of the posts created in a tabular form by this fictitious Employer. An Employer will obviously not be able to see posts created by other Employers. The Employer may click on **Review** to see details and access more functionality.

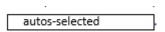


Click on **Create Post** to see the following choice.

1.—In the case of a member of staff, they will need to make the following selection



2. In the case of an external employer, the company will be auto-selected



The remaining information must be filled out.

Job title						
Location	building, campus, etc or an address					
Description of job						
	Tr B I ⊻ & ≔ i≡ " — ⊠ © ~					
Key responsibilities						
	Tr B I ⊻ & \equiv \text{\tint{\text{\tin}}}}}} \end{ent}}} \end{ent}} \end{ent}}} \end{ent}}}}}}}}}}}}}}}}}}}					
Fulltime or part-time	V	• < 2 • 2 to 4				
Part-time: Number of hou	rs required in a week Range	• 4 to 6				
Start date		• 6 to 8 • 8 to 12				
End date		• >12				
Hourly rate						
Limited to						
☐ 1 <sup>st</sup> year ☐ 2 <sup>nd</sup> year	□ 3 <sup>rd</sup> year □ Honours					
☐ Graduates ☐ Masters	PhD Postdoc					
☐ Faculty? ☐ Departr	nent?					
Limited to						
O South African citizens or						
O Open to everyone						
Minimum Requirements Doi	ng 1st year Elec Eng or 1st year Bcom. Knowledge of Office 365					
Application instruction Ple	ase submit covering letter with a detailed CV. We need you to					
incl	ude full details for 3 referees, copy of ID, proof of resident					
Closing date 31-	03-2023 🛗					
Contact person (for internal use email Only visible to CCDU						
and not visible to student	s) Contact no					
Create Post Back						

Create Post will save and take the Employer back to the tabular display of posts and set the Status to Pending.

Job title	Department	FT/PT	Start	End Rate	Status	
Library assistant	Library	PT	04-01-2023	31-03-2023	Pending Review	
Choir director	Wits School of Arts	PT	01-02-2023	30-04-2023	Approved Review	
Lab assistant	Eskom Holdings SOC	FT	12-06-2023	30-06-2023	Rejected Review	
Tutor	Facu Eng & Built env	PT	01-03-2023	31-07-2023	Closed Review	
Tutor	Fac of Law & Comm	PT	01-02-2023	30-10-2023	Withdrawn Review	
Create Post						
Back						

#### The possible Status options are

- Pending post created and awaiting review by Admin
- Queried the post was viewed and Admin is seeking more information or requiring clarification
- Rejected Admin felt that this post was inappropriate for whatever reason.
- Approved post is live and visible to students.
- Closed post was closed and is no longer accepting applications. It would no longer be visible to students except within the history of those that applied.
- Withdrawn a post was withdrawn by the Employer for whatever reason (eg. failing to secure a grant).

#### 2.9.3 Review Post

#### Start with the list of Posts

Job title	Department	FT/PT	Start	End Rate	Status
Library assistant	Library	PT	04-01-2023	31-03-2023	Pending Review
Choir director	Wits School of Arts	PT	01-02-2023	30-04-2023	Approved Review
Lab assistant	Eskom Holdings SOC	FT	12-06-2023	30-06-2023	Rejected Review
Tutor	Facu Eng & Built env	PT	01-03-2023	31-07-2023	Closed Review
Tutor	Fac of Law & Comm	PT	01-02-2023	30-10-2023	Withdrawn Review

The user may use the **Review** button and edit information in a post. Any comments made by the review would be visible.

Reviewer's comment The description is too vague. Why is this limited to engineering only?					
O Internal (within Wits)  Select Faculty  Select Department	○ External (created on behalf of)  Select Company				
Job title					
Location	building, campus, etc or an address				
Description of job					
, ,					
Key responsibilities					
,					
Fulltime or part-time	V				
·	rs required in a week Range				
Start date	<u> </u>				
End date					
Hourly rate	[*** ]/				
Limited to					
☐ 1 <sup>st</sup> year ☐ 2 <sup>nd</sup> year	☐ 3 <sup>rd</sup> year ☐ Honours				
☐ Graduates ☐ Masters					
☐ Faculty? ☐ Departm					
Limited to					
O South African citizens or					
O Open to everyone					
_	ng 1st year Elec Eng or 1st year Bcom. Knowledge of Office 365				
William Requirements	ing I year blee big or I year been knowledge or office see				
Application instruction Plea	ase submit covering letter with a detailed CV. We need you to				
	ude full details for 3 referees, copy of ID, proof of resident				
	03-2023				
Contact person (for internal us					
and not visible to student					
	Withdraw				
View Applicants Close Back	William				

The **Close** button (after a pop-up confirmation) will result in this post being no longer available to students other than those that have already applied.

The **Withdraw** button (after a pop-up confirmation) will result in this post being no longer available to students other than those that have already applied. Those students who have applied will see this status next to the post. This status is a future feature as it may have other implications that would need to be identified and addressed.

#### 2.9.4 View Applicants

As an employer, I want to review all the applicants responding to my post.

This will open up a tabular view listing all the applicants.

Name	Surname	Department	Course	Level	Gender	Status	
John	Favreau	Fac of Eng & Built Env.	Chemical Engineering	Year 2	Male	Pending	Details
Bob	Marley	Wits School of Arts	Gaming	Year 3	Female	Pending	Details
Jean	du <u>Preez</u>	Health Sciences	BHSc – Biokinetics	Year 1	Female	Pending	Details
Simphiw	e <u>Dladla</u>	Science	Physics	Hons	Male	Withdrawn	<del>Details</del>

Click on **Details** to view the following information on the student with their complete digital profile

Job title: Library assistant

Job Description: Temp for the librarian after hours

Student no 0012345/A

Department Faculty of Engineering and Built Environment

Course Chemical Engineering

Level Year 2

Profile

Name: Abe Surname: Villiers

Email address abe.villers@wits.ac.za

Tel number 0611234567

Gender Male Nationality South Africa

..... Full digital profile ......

.....

Document 1 Cover letter

Document 2 Transcript

Document 3 Certificate

Outcome status Interview/On Hold/Rejected/Appointed

Back Save

Clicking on the document hyperlink will open them one at a time in a pop-up window.

On this screen, the Employer must choose the outcome status which is explained as follows:

- Interview the candidate is to be interviewed
- On hold the candidate has been reviewed but no decision has been made.
- Rejected the candidate must be notified and will not be considered further.
- Appointed candidate will be notified accordingly

This feature is dependent on the Employers using this functionality. The Employer must select an outcome and **Save** They will be returned to the previous screen as follows.

Student no	Department	Course	Level	Gender	Status	
0012345/A	Fac of Eng & Built Env.	Chemical Engineering	Year 2	Male	Pending	Details
0012345/A	Wits School of Arts	Gaming	Year 3	Female	Unsuccessful	Details )
0012345/A	Health Sciences	BHSc – Biokinetics	Year 1	Female	Successful	Details
0102502/B	Science	Physics	Hons	Male	Withdrawn	<del>Details</del> )

The Status is explained as follows and will be displayed the same for the respective student.

- Pending application has not been reviewed and/or the outcome is undecided
- Unsuccessful application is rejected
- Successful applicant is appointed
- Interview as above
- On hold as above (perhaps a better term should be used).
- Withdrawn the applicant has voluntarily withdrawn their application. The details of this applicant can no longer be viewed by the Employer.

#### 2.9.5 Export Excel

An employer may Export all the applicants (excluding those that have withdrawn) to a flat and wide Excel spreadsheet containing the complete digital profile. The file may be saved locally for analysis.

#### 2.10 Approver Journey

User story: As an Approver, I want to review all external employer registrations and decide who to approve.

#### 2.10.1 Review external employers

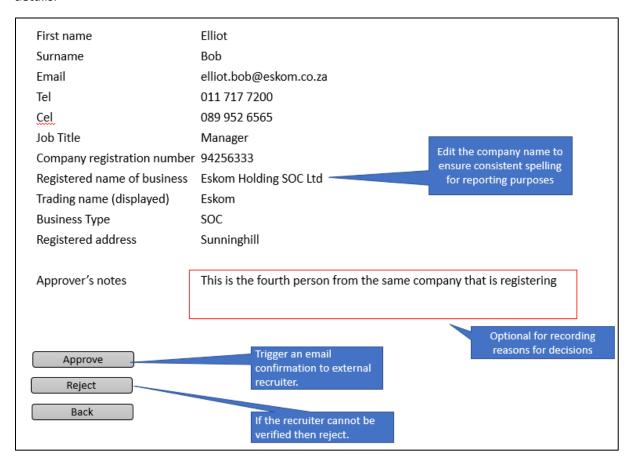
Upon login, the Approver will see the following options.



Clicking on the Review External Employers will open up a list of employers in a tabulur format as shown below. The list may be filtered including by *Status*.

Name	Legal Name	Trading name	Registration number	Status	
Bob Elliot	Eskom Holding SOC Ltd	Eskom	200201552730	Pending	Review
James Webb	Wits Incubator (Pty) Ltd	Tshimologong	201702456811	Pending	Review
Matt Damon	University of Johannesburg	UJ	201501505046	Approved	Review
Winona Ryder	Sasol	Sasol	102142501225	Rejected	Review

The Status field will indicate all Pending registrations. Click on **Review** and the following window will open with details.



The Approver may call the Employer using the details provided to verify the details and decide whether the Employer is approved or rejected.

If an employer is rejected, then the Employer will have to provide the necessary documentation to change the status to Approved.

Upon completion, the Approver is returned to the following screen with the Status updated. The Status is explained as follows.

- Pending application has not been reviewed and/or the outcome is undecided
- Approved the Employer may login and use this service
- Rejected the Employer cannot login but the details will remain in the system.

#### 2.10.2 Review Posts

User Story: As Approver, the posts need to be reviewed to decide whether it complies with CCDU standards for publication (ie made visible to students).

On the main menu, using the **Review Posts** button will open the following window. The list may be filtered, including the *Status* field.

Job title	Department	FT/PT	Start	End Rate	Created by	Status	
Library assistant	Library	PT	04-01-2023	31-03-2023	employer	Pending	Review
Choir director	Wits School of Arts	PT	01-02-2023	30-04-2023	employer	Closed	Review
Lab assistant	Eskom Holdings SOC	FT	12-06-2023	30-06-2023	employer	Pending	Review
Lab assistant	Physics	PT	01-01-2023	31-12-2023	employer	Withdrawn	Review
			1	I			

Click on **Review** for a post and the details will be displayed.

viewer's comment	Provide reason if the vacancy is queried or rejected. The description is too					
	vague. Why is this limited to engineering only?					
O External (created on behalf of)						
	<u> </u>					
Select Faculty	Select Company					
Select Depa	rtment 🔻					
Location	building, campus, etc or an address					
Description of job	building, campus, etc or an address					
Description of Job						
Key responsibilities						
ney responsibilities						
Fulltime or part-time						
•	per of hours required in a week Range					
Start date						
End date						
Hourly rate	[6:3]					
Limited to						
☐ 1 <sup>st</sup> year ☐	] 2 <sup>nd</sup> year ☐ Honours					
Graduates	Masters PhD Postdoc					
☐ Faculty? ☐	Department?					
Limited to						
O South African cit	izens or					
O Open to everyon	ie e					
Minimum Requireme	ents Doing 1st year Elec Eng or 1st year Bcom. Knowledge of Office 365					
Application instruction	on Please submit covering letter with a detailed CV. We need you to					
	include full details for 3 referees, copy of ID, proof of resident					
Closing date	31-03-2023					
Contact person (for i	nternal useemail					
and not visible to	o students) contact number					
Outcome	Approved/Rejected/Queried					

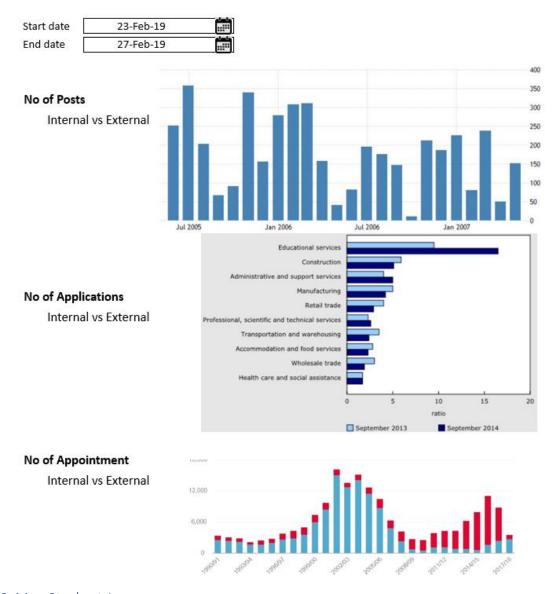
Review the details and set the *Outcome* to Approved. Upon **Save changes**, the advert will become public. However, if the information is unsatisfactory, set the Status to *Queried* or *Rejected* and write comments for the benefit of the Employer. In both cases, the comments will be visible to the Employer.

The Approver will be returned to the previous list of posts and with the Status updated.

#### 2.10.3 View stats

User Story: As Approver, I want to view some basic stats on the effectiveness of this service

Using the View stats button will display some basic charts. Specify the data range to confine the charts.

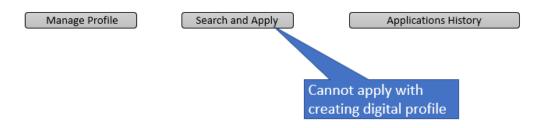


#### 2.11 Student Journey

#### 2.11.1 Home page

User story: As a student, give me access to resources to help me prepare for an interview.

The following options and links from CCDU will be displayed on the home page.



Links

CCDU CV & Cover Letter Documents:

- CV & Cover Letter Presentation A pdf of the PowerPoint presentation as presented in the Journey to Employability Programme [JEm].
- Kabelo Sekele CV] A Word template providing a guide to the essential elements of a CV.
- Kabelo Sekele CV (pdf) A pdf template providing a guide to the essential elements of a CV.
- The Job Interview [11Mar2020] A pdf of the Powerpoint presentation as presented in the Journey to Employability Programme [JEm]



Social media links will also be inserted in the footer.

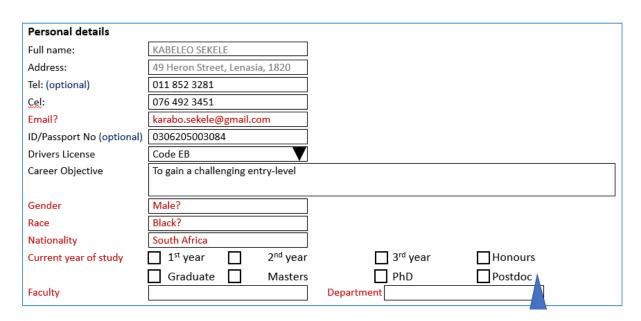
#### 2.11.2 Student Registration

Suggest a suitable user registration page. It does not need to be overly complicated as students need not be verified.

#### 2.11.3 Manage Profile

User story: As a student, I need to create a digital profile (CV) so that I can use it for job applications

The **Manage Profile** button will open the following window. The fields in this form were created based on the sample CV from the CCDU website for a fictitious student Kabeleo Sekele. The student is expected to start with the following information.



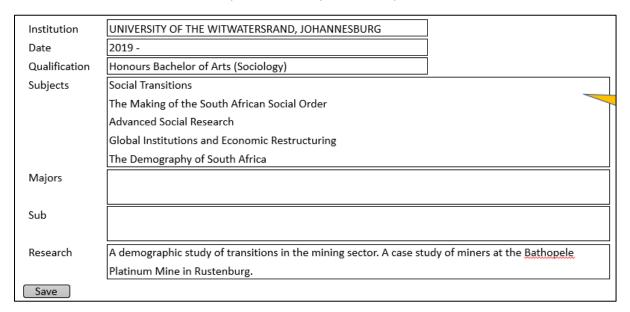
It is unclear at this stage whether the text in red is required but it is stated herein so that CCDU may provide input.

#### Education

When it comes to *Education*, the details are displayed in summary with an **Add** button.



Click on the **Add** button to fill out a qualification as per an example below.



Leave non-applicable fields blank and Save upon completion

An example of adding another education is shown below.

Institution	UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG	
Date	2016 - 2018	
Qualification	Bachelor of Arts	
Subjects		
Majors	Sociology and Media Studies	
Sub-majors	Politics and English Literature	
Research		

Add another example of education is shown below.

Institution	JEPPE HIGH SCHOOL FOR BOYS, JOHANNESBURG				
Date	2011 - 2015				
Qualification	Highest Grade Passed: Grade 12				
Subjects	English (Home Language), Afrikaans (First Additional Language), N	lathematics, Life Sciences,			
	Accounting, Business Studies, Life Orientation. Distinctions achieved in English and Business Studi				
Majors					
Sub-majors					
Research					

Upon saving the qualifications, the student is returned to the profile page, where they will see all their qualifications in summary form, as shown below.

Education Add	
Honours Bachelor of Arts (Sociology) Bachelor of Arts Highest Grade Passed: Grade 12	Edit Delete  Edit Delete  Edit Delete

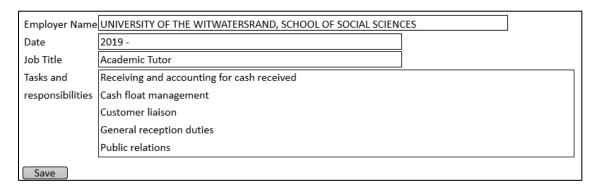
Each qualification may be **Edit**ed or **Delete**d.

#### Employment

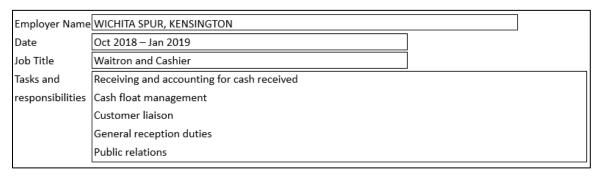
#### **Employment**

Add

Use the **Add** button and you will be presented with the following screen. Fill out your work experience.



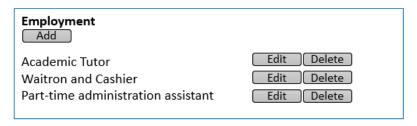
Save will return you to the previous screen. Use the Add button to create another work experience as shown below.



#### One more.

Employer Name Khaya FM								
Date	Apr 2018 – Jul 2019							
Job Title	Part-time administration assistant							
Tasks and	Retrieval of information for research projects							
responsibilities	Library Information database development							
	Assisting the receptionist during busy periods							
	Filing and other general office duties							

When the student returns to the profile page, they will see a summary of their work experience as follows.



Each employment may be **Edit**ed or **Delete**d.

Continue with the digital profile by listing your skills as per the example shown below.

#### Skills

Desktop design and layout

General office routine skill and experience

Microsoft Office, In-Design, Photoshop, Marketing and Promotions using social media. Strong familiarity with Microsoft Excel.

Tutoring and education support

Interpersonal skills developed through work experience and tutoring

Attaining objectives through teamwork processes

#### List all your achievements

#### **Achievements**

Special achievements and Honours:

Distinctions in Sociology II (2017) and Media Studies III (2018)

Active participant in WCCO (Wits Citizenship and Community Outreach - Wits University) (2017 - )

Residence House Committee Member and Programme Coordinator, Wits University (2016 & 2018)

Jeppe High School football team captain (2015)

Jeppe High School Debating Team member (2014 - 2015)

List your interests as shown below.

#### Interests

Sport: Football, Cricket, Tennis and Volleyball. I believe that participation in sport

develops strength in the areas of leadership and physical health.

Design: My interest in art and design has developed my ability to think creatively and

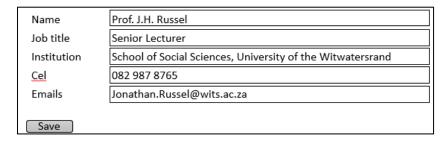
to present my ideas professionally.

#### Referees

#### Referees

Add

Use the **Add** to include referee using the following screen.



Add another referee as shown below.

Name	Mr B. Satsha
Job title	Manager
Institution	Wichita Spur, Kensington
Cel	089 659 7854
Emails	Brian.Satsha@gmail.com

Upon completion, all the referees will be displayed in the summary form below.



Click Save Profile to complete. The student may return any time to update and grow the profile.

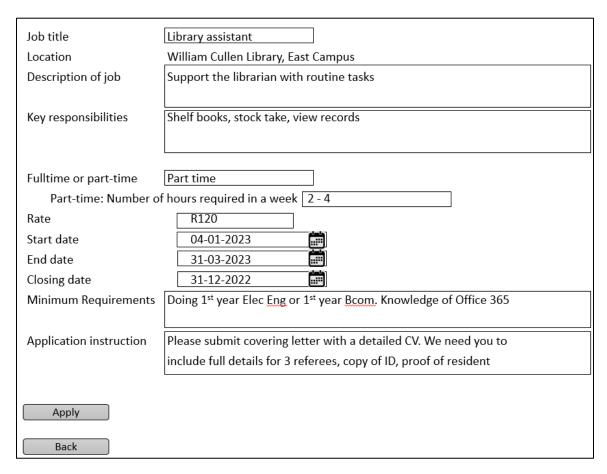
#### 2.11.4 Search and Apply

User story: As a student, I want to search posts so that I may apply.

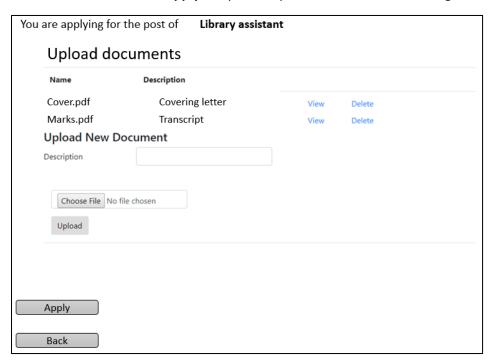
The following view will display only those posts that fit their profile (year, faculty and nationality).

Job title	Department	FT/PT	Start	End Rate	Hours per week	Rate	
Library assistant	Library	PT	04-01-2023	31-03-2023	2 – 4	R100	Details
Choir director	Wits School of Arts	PT	01-02-2023	30-04-2023	4 – 6	R120	Details
Lab assistant	Eskom Holdings SOC	FT	12-06-2023	30-06-2023	6 – 8	R96	Details

Clicking on **Details** will open up a screen as shown below.



Should the student select **Apply**, they will be presented with the following screen for uploading documents.



The example below shows that the student has already uploaded a cover letter and their transcript. The student may **View** or **Delete** an uploaded file. To upload another document, the student must add a *Description* for the ease of use of the Employer. Then use **Choose File** to browse their local machine and select a file. Press the **Upload** button and after a brief moment, the screen will refresh displaying the newly uploaded document and the corresponding description.

Press the **Apply** button to complete the application process. The student will no longer be able to delete or submit additional documentation. The student will be returned to the search window where they may continue to browse available posts.

#### 2.11.5 Applications History

User story: As a student, I wish to view the progress on all my applications (ie view history). The information will be displayed in a tabular form as shown below. The history will be visible in perpetuity.

Job title	Department	FT/PT	Start	End Rate	Outcome	
Library assistant	Library	PT	04-01-2023	31-03-2023	Pending	Details Withdraw
Choir director	Wits School of Arts	PT	01-02-2023	30-04-2023	Successful	Details
Lab assistant	Eskom Holdings SOC	FT	12-06-2023	30-06-2023	Unsuccessful	Details
Tutor	Facof Eng & Blt Env	PT	01-02-2023	30-09-2023	Cancelled	Details
Lab assistant	Physics	PT	01-01-2023	31-12-2023	Withdrawn	Details

The *Outcome* will indicate the current status as explained below.

- Pending application was completed and submitted. It is now awaiting review and decision.
- Successful the candidate was appointed
- Unsuccessful the candidate was rejected. We encourage employers to use the available features to use this
- Cancelled set by the system when a post is withdrawn by Employer due to funding no longer being available (this is a future feature).
- Withdrawn while an application is *Pending*, the candidate has the option to **Withdraw** the application so that it is no longer visible to the Employer.

#### Proposal 3

# **Project Plan**

3	Project Plan  Software Development Unit - Graduate Internship Prog Current							24-Apr-23	30-Apr-23	% 07-May-23							25-Jun-23	02-Jul-23	09-Jul-23
item	ACTIVITY	PLAN START Date	PLAN END Date	PERCENT COMPLETE		plan 24		26	27								35	36	37
4	Boot camp training for interns	02-Jan-23	31-Mar-23	0%	23	2-7	23	20	21	20	23	30	J1	32	33	34	33	30	37
5	Plan all the test cases, create dummy data	03-Apr-23	28-Apr-23	0%															
6	Setting up environments, roles, databases, security	03-Apr-23	07-Apr-23	0%															
7	Login with both AD integration and app registration	10-Apr-23	14-Apr-23	0%															
8	External employer registration and editing	17-Apr-23	28-Apr-23	0%					,,,,,,										
9	Configure categories for searching	01-May-23	05-May-23	0%															
10	Employer manage posts (create and edit post).	08-May-23	12-May-23	0%							,,,,,,								
11	Employer: View applicants and supporting documents	15-May-23	19-May-23	0%								,,,,,,,							
12	Employer: Export applicants to Excel in flat file	22-May-23	02-Jun-23	0%			<i>''</i>												
13	Student home page with links to CCDU and social media Student: Create/Edit Digital	17-Apr-23	21-Apr-23	0%															
14	profile. Add/edit multiple Student: Search, view details	24-Apr-23	05-May-23	0%															
15	of posts and Apply Student: Upload documents (to	08-May-23	12-May-23	0%															
16	complete application) Student: View Aplication	15-May-23	19-May-23	0%															
18	progress and history Admin: Approve external	22-May-23	26-May-23	0%															
19	registrations Admin: View all posts, approve	29-May-23		0%															
20	or reject  Admin: Export raw data to  Excel in flat file	05-Jun-23 05-Jun-23	16-Jun-23	0%															
21	End to end testing	19-Jun-23	30-Jun-23	0%															
22	UAT	03-Jul-23	07-Jul-23	0%															
23	Handover and go live	10-Jul-23	14-Jul-23	0%															

Sound software engineering principles will be applied to develop the software to ensure we produce high-quality apps.

#### 3.1 Hosting

As with many moderns application, the application may be hosted either on the Cloud or on-premises. On either platform, three separate but identical environments are required for

- 1. Development
- 2. Testing/QA/Staging
- 3. Production

Costs for hosting in the Cloud can be provided upon request and are excluded from this proposal. It is assumed that Wits ICT would avail suitable environments and costs would be for the CCDU account. Based on the anticipated traffic, an adequately specified server is required to host the production version of the web app.

#### 3.2 Support and Maintenance

After deploying the application, there would be a need for support and maintenance for a period of 12 months. This is charged at 20% of the total cost of development. The support will include bug fixes as well as minor tweaks to ensure that the application is operational. Any feature enhancements, significant changes or subsequent phases will be quoted separately.