# Appendix B

### Pharmacy Management Application

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## **Explicit Client Requirements' Testing Feedback**

The results of the survey questionnaires given to the testers is evaluated and summarised.

Criteria Serial	Success Criteria	Met / Not Met
1	Profiles for the Front Desk, Pharmacists, Doctors, and the Admin	Met (10/10): The user could access all applications through the carousel on the home page. On successful login, the user could access the profile.
2	Only the admin profile can verify and remove employees and edit doctor specializations.	Met (10/10): The admin users could successfully verify and remove employees. They could also add, edit, and delete doctor specializations. The changes for all actions were reflected in the database accordingly.  Testers also reported that these features were not available in any of the other profiles.

3		
	Admin and pharmacy profiles can view	Met (10/10): Both admin and pharmacy
	and edit medicines and inventory, and	users could successfully add, view, and
	lab tests.	edit medicines, their inventory and lab
		test instances. The changes were also
		successfully reflected in the database.
		Testers also reported that these features
		were not available in any of the other
		profiles.
4	The front desk profile can book	Met (10/10): Front desk users could
	appointments for new and existing	successfully enter details for new patients
	patients.	and book their appointments. They could
		do the same for existing patients and link
		a new appointment to a previous one for
		continuity.
		Testers reported that the appointments
		were successfully reflected in the
		assigned doctor's application and the
		database.

5	The doctor profile can write a prescription for booked appointments.	Met (8/10): After an appointment was booked for a specific doctor, it was reflected for that doctor user. The doctor user could then write a prescription for that patient. However, the layout of the prescription page did not match the traditional layout.
6	The doctor's profile allows access to the prescription at all times, and the pharmacy profile allows access for some time, abiding by medical rules and regulations.	Met (10/10): Testers reported that on submission of a prescription, the doctor could view it on the home page under previous prescriptions data table. If the current prescription was associated with a previous one, doctor users could successfully view it.  The pharmacy users could only view the prescription until they mark the status tracker for medicines and lab tests completed themselves. They are also marked as complete if the lab tests have

		not been initiated at all, and the patient
		pays for the appointment.
7	The pharmacy profile can dispense	Met (10/10): The testers were able to
	medicines and enter the required data	dispense medicines with the required
	for lab tests.	quantity and enter data for lab tests. They
		were also able to update the status for
		both medicines and each individual lab
		test. The updates were accordingly
		reflected in the database and the front
		end.
8	Status trackers for prescribed medicines,	Met (8/10): Pharmacy users were able to
	lab tests and prescriptions.	update the status trackers for medicines
		and lab tests. These updates were
		accordingly reflected in the database and
		also in the front end. For instance, if the
		medicines_fulfilled field was updated to
		true, the testers could not access those
		medicines again. More status trackers

		could have been implemented for even more comprehensive progress checks.
9	All required fields must be filled out before submitting; to inform the user otherwise appropriately.	Met (10/10): The testers could not submit data if the required fields were not filled. They were prompted using notifications the field that was not filled.
10	Sessions will automatically expire after a set period, requiring re-login.	Met (10/10): After every 30 minutes, axios requests to the refresh endpoint to generate a new access token. After 24 hours since login, the user is redirected to login.
11	Structured way of generating tokens at the front desk, for an ordered way of writing prescriptions by the doctor.	Met (5/10): Front desk users were able to successively generate tokens for any doctor at any given day. Testers could not find any faults. However, the concept of time slots could not have been implemented.

12	The system will calculate the total costs	Met (10/10): The front desk users could
	for an appointment based on	see the total amount and its breakdown in
	consultations, lab tests, and medicines	the home page for due patients. Testers
	taken.	calculated each component manually, and
		found the results to be accurate.
13	The system will display clear error	Met (8/10): For most of the major
	messages and success notifications for	actions, the testers reported that they
	user actions to keep them informed.	were informed using notifications.
		However, some minor notifications were
		missed out. The error messages were also
		reported to be cryptic and not very
		user-friendly.

## **Generic Requirements**

Serial	Criteria	Comments
1	Usability and Accessibility	(7/10) All the buttons and views are easy to navigate,
		and every page maintains a consistent user experience

		that becomes more intuitive with use. However, the
		interface can feel cluttered, making it somewhat
		confusing for first-time users.
2	Reliable and accurate	(10/10) The users reported accurate data entry and
	database connection	retrieval, without any bugs. All actions were reflected
		in the database accordingly, and the users were
		informed accordingly in the case of an error
3	Accurate user	(10/10) All views had pre-defined permissions for
	authentication with	users. Only permitted users were allowed to request
	predefined permissions	or post data to that endpoint and view. Unauthorised
		access would result in errors.
4	Properly structured tables	(9/10) Users upon viewing the tables felt it was
	and models for the	efficiently structured and felt intuitive. Relationships
	database	were appropriately defined.
5	Illegal/out of bound entries	(10/10) PrimeVue's different components for different
	should be prohibited	types of input data ensured that illegal data was not
		allowed. Additionally, limits for each individual fields
		were set if required for the smooth functioning of the
		application.