# Requirements:

There are several requirements that our system aims to fulfill.

## user Requirement

Our system serves three main user groups: the farmer, the exporter, and the agent, each with specific needs that our system will address.

### farmer requirement

* **Market Access**

Farmers in the specified regions seek a reliable market for their coffee and selit products. Lacking direct access to exporters, they are forced to rely on local traders, often leading to unfair pricing.

* **Pricing Information**

In the absence of direct communication with exporters, farmers remain unaware of the pricing of their produce in the export market. They require access to pricing information relevant to their products.

* **Training and Education**

The lack of digitization in the agricultural sector is primarily due to the farmers' limited exposure to the digital world. Thus, there is a need to raise awareness about digital systems among them.

* **Financial Support**

Despite having sufficient land for production, farmers are not maximizing their yield. Consequently, they need financial support either through negotiations with their buyers or through other available channels.

### Exporter requirement

* **Direct Farmer Connection**

The exporter's current practice involves not purchasing export products directly from the farmer. Hence, there is a need for the exporter to establish a direct connection with the farmers to effectively address their requirements.

* **Quality Control and -Real-Time Crop Information**

The exporter has precise quality standards for the products being exported. Therefore, it is crucial for the exporter to have control over the farmers' products to ensure adherence to these requirements.

* **Cost Transparency**

Similar to the farmers, the exporter lacks insight into the pricing of the product at the source. Therefore, transparent information on the product is imperative for the exporter.

### Agent requirement

Agents are users of the system who provide guidance and mentorship to digitally inexperienced farmers, assisting them with tasks such as creating accounts, product registration, and other system-related activities.

* A user-friendly interface for the platform
* Competitive salary and bonuses
* Comprehensive training and support
* Access to necessary resources and tools
* Clear communication channels with the farmers

Top of Form

Collectively, these three parties seek a digital system that directly connects them, serving as an intermediary-free solution, mutually benefiting their individual requirements

## system requirement

**Data Collection**

We can employ various research and data collection methods to gather information from potential producers. Here's a step-by-step approach:

**Conduct Surveys:**

Design and distribute surveys to farmers in the JIMMA, KAFFA, SIDAM and GONDAR areas. Include questions about their current challenges in exporting coffee and Selit, their willingness to participate in a digital platform, and the type of information they would be comfortable sharing**.**

**interviews:**

Conduct interviews with a sample of farmers and exporters to gain more in-depth insights into their needs, preferences, and concerns. We use open-ended questions to encourage detailed responses.

**Conducting Survey via Google Form**

Gathering valuable data from students at AAU University, focusing on those with a background in agriculture from JIMMA, KAFA, SIDAMA, and GONDER. To facilitate this process, preparations will be made to develop and distribute a Google Form survey among the targeted participants.

**Desktop Research:**

Conduct desktop research to understand the current state of the agricultural export sector in Ethiopia. Analyze existing data, reports, and studies to identify trends, challenges, and potential solutions.

**Social Media and Online Platforms:**

Utilize social media platforms such as Facebook and Telegram, along with online forums, to reach out to stakeholders. Create online surveys or engage in discussions to gather opinions and preferences related to the proposed platform, targeting exporters.

**Ethical Considerations**:

Ensure that their data collection methods adhere to ethical standards. Clearly communicate the purpose of data collection, obtain informed consent, and assure participants of their data confidentiality. By combining these research methods, we can build a comprehensive understanding of the needs and expectations of potential users for our platform. This research will inform the design and development of the system, ensuring that it addresses the real challenges faced by producers in Ethiopia.

Collecting data from potential exporters is crucial for understanding their needs and preferences. Here our suggested approach:

**Define Research Objectives:**

* Clearly define the objectives of your data collection. What specific information do you need from exporters? This might include their preferences, challenges they face in the current export process, and their expectations from a digital platform.

**Create a Survey:**

* Develop a structured survey with a mix of closed-ended and open-ended questions. Ensure that the questions align with your research objectives. You can use online survey tools like Google Forms or SurveyMonkey to create and distribute surveys.

**Online Platforms and Forums:**

* Join relevant online platforms and forums where exporters discuss industry-related topics. Engage in conversations, seek opinions, and, if appropriate, share a brief survey link.

Remember to approach exporters with a clear explanation of your project, its objectives, and how their insights will contribute to the success of the project. Always ensure ethical considerations and respect the privacy of participants.

4.Deliverables: tangible and in-tangible outcomes of the system

5.Stakeholder Involvement: who gonna use the system

6.Scope Change Management: how to manage any change in scope