An alternative to a butterfly pea flowers and spices dip as a creative endeavour in the village of Bawuran

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Abstract. Bawuran Village is one of Pleret Subdistrict villages, Bantul Regency, where most of the residents' livelihoods are casual daily labourers and farm labourers/plantations. Therefore, it is necessary to have a creative business in the village of Bawuran that can support and improve citizens' economy. One of the innovative businesses that can be developed in Bawuran Village is the use of spices. And by adding butterfly pea flowers to this spiced drink can add nutritional value. With this dipped butterfly pea flower beverage production, it is expected to become an alternative creative effort in Bawuran Village.

1. Introduction
Bawuran is a village located in Pleret District, Bantul Regency, Special Region of Yogyakarta. This village is located approximately 20 km to the east of the centre of the Bantul Regency and is 3 km from Pleret District. Bawuran Village has an area of 497 hectares, with a population of 5978 people [1][2][3].

Most of the livelihoods of the people of Bawuran village are casual daily labourers and farm labourers/plantations. Therefore, it is necessary to have a creative business in the village of Bawuran that can support and improve citizens' economy. One of the innovative businesses that can be developed in Bawuran Village is the use of spices. Spice plants in the village of Bawuran are very diverse and abundant, such as ginger, lemongrass, and others. At present, the community has developed a drink known as wedang uwuh, which contains various kinds of spices. Spice drinks are rich in benefits; besides refreshing and warming the body, drinks from spices are high in antioxidants and good for health.

Ginger has been widely known as a spice and medicinal plants. Ginger is widely consumed because it is known to be high in antioxidants. Many studies state that ginger is perfect for health because of the essential oils and active compounds [3][5]. Ginger is useful as a cooking spice, herbal medicine and also a beverage ingredient [6].

In addition to ginger, lemongrass is also very popular in the community as a spice in cooking spice and medicinal plants because it is high in antioxidants and has a fragrance but is not preferred mosquitoes [7]. Many people have processed ginger and lemongrass into a variety of very healthy health drinks [8]. Ginger and lemongrass can be consumed alone or combined so that they have the function of strengthening and complementing each other [9][5]. Ginger and lemongrass drinks that are usually consumed by the public produce a murky white colour. This is also one of the creative ideas that can be developed by adding butterfly pea flowers that make a blue colour in a brewed drink.

Butterfly pea flowers which can function as natural dyes on food/beverage products. And lately, the butterfly pea flower has become very popular because producing blue/purple colour in steeping results
is also known to be high in antioxidants and provide health benefits [10]. The way of cultivating butterfly pea flowers is also so that it can be developed in Bawuran Village. This community service aims to establish spicy butterfly pea flower drinks into creative ventures in Bawuran Village.

In Bawuran Village, communities are also still limited in their knowledge regarding the diversification of agricultural products that can be developed from local agricultural products. Product diversification about spices is still limited and less desirable. The public does not know the benefits of spices that refresh and warm the body but rich in antioxidants that are good for health. The community in Bawuran Village does not widely know butterfly pea flowers, which can be natural dyes and rich in antioxidants.

So the solution offered at community service in the village of Bawuran is to provide knowledge about the diversification of the butterfly pea and spice dip drink as a creative endeavour in the town of Bawuran to improve the community's economy. Besides, this service is expected to inspire Bawuran Village residents to innovate in diversifying other spices.

2. Method
This service activity lasted for four months, from March - July 2020. The person in charge of this service activity was two lecturers from the Bachelor Program in Agricultural Product Technology, Faculty of Agriculture, Universitas PGRI Yogyakarta. The target of community service is PKK hamlet Tegalrejo, Bawuran Village, Pleret District, Bantul Regency. PKK is a family welfare empowerment, a community organization that empowers women to participate in Indonesia's development. The mothers' groups in Bawuran Village are known to be very active in PKK activities. This dedication can increase mothers' productivity, and this creative endeavour can improve the citizens' economy. The steps taken to achieve this goal are as follows:

2.1. Socialization
The socialization was carried out at the beginning of the activity. It is intended that the people of Bawuran Village (PKK in Tegalrejo Hamlet) who become partners, understand and know the purpose of this activity. The partner's understanding of this activity is expected to increase partners' active participation in the community empowerment program's success. With this socialization, the potential of Bawuran Village will be known, both in terms of socio-culture and the potential of agricultural products. At the time of socialization, there will also be input from partners regarding the program and discussions regarding the program implementation schedule to reach an agreement between partners and service providers.

2.2. Production of dipped spice drinks.
With the Covid-19 pandemic, community service programs cannot be carried out directly because they are by health protocols that limit citizen engagement, so that community service events are conducted online. And the limited facilities to access the internet by some residents, the service concept is TOT (Training of Trainers). We uploaded a video about butterfly pea production and spice dip drinks in the YouTube channel to be easily accessed. Furthermore, the dedication team carries out online counselling through a zoom meeting. For consultation and coordination, the lecturer team's counselling event can be done online through the WhatsApp group.

2.3. Provide assistance
This activity is carried out to ensure the program's sustainability and ensure partners can carry out activities as planned. Consultation and coordination, as well as mentoring, are done online through the WhatsApp group. And to help the initial production of this butterfly pea and spices dip beverage, our service team provided capital assistance in the form of tools and materials needed to produce this butterfly pea and spices dip beverage.
3. Result and discussion

Dedication to the community regarding assistance in producing spices dip beverage in PKK in Tegalrejo Hamlet, Bawuran Village, Bantul District, has been carried out in March - July 2020. Community service activities are carried out to resolve partner problems with mutually agreed solutions. This dedication program is expected to increase partners' knowledge about the potential of local food in Bawuran Village. It can produce spices dip beverage that can be an alternative to creative endeavours.

Community service activities are begun with socialization/survey of service locations. The dedication team held a meeting with the Head of Bawuran Village. This meeting was held in early March 2020. The meeting results with the Head of Bawuran Village subsequently recommended a dedicated team to do service at PKK in Tegalrejo Hamlet.

Coordination between the community service teams and PKK in Tegalrejo Hamlet was carried out online because of the conditions of the Covid-19 pandemic. The coordination with the PKK in Tegalrejo Hamlet and seeing the local food potential of the Tegalrejo Hamlet which can be developed as an alternative to creative endeavours in Bawuran Village, then the choice is made to produce butterfly pea and spices dip beverage.

Next stage, we will coordinate more online. Therefore, our devotion team made a video of the butterfly pea and spices dip beverage production process, which will then be uploaded on the YouTube channel so that partners and the general public can also see it. Youtube channel link for the production process of butterfly pea and spices dip beverage, i.e., https://youtube/BfEBXWj0iTo. Figure 1 shows video footage of the production of butterfly pea and spices dip beverage.

Figure 1. Video footage of the process of making butterfly pea and spices dip beverage

The next step is counselling provided online on July 15, 2020, through a zoom meeting. Five mothers represented five participants who took part in the zoom meeting from PKK in Tegalrejo Hamlet. The webinar implementation process can be seen in Figure 2.

Figure 2. Webinar event production of butterfly pea and spice dip beverage
When the webinar event was seen, the partners played an active role seen from the mothers' attention during the webinar event, and the partners were enthusiastic about asking some material. After the webinar event, it was hoped that the partners would increase their knowledge about the material that had been delivered and encourage the mothers to produce butterfly pea and spices dip beverage. We have prepared the ingredients needed to produce the butterfly pea and spices dip beverage, making it easier for mothers to try it. The practice partner makes a butterfly pea and spices dip beverage, as shown in Figure 3.

After making the butterfly pea and spices dip beverage, the partners can innovate other spice dip beverage. They can produce sustainability so that it can help improve the economy of the Bawuran Village community. Besides that, with butterfly pea and spices and other products made by partners are expected to be an alternative to creative endeavours.

4. Conclusions and recommendations
From this community service in Bawuran Village, the following conclusions can be drawn:
1. Community service activities are supported by government officials, where the Village Head of Bawuran also strongly supports this activity.
2. Community service is welcomed by partners (Bawuran Village, Bantul Regency), although online.
3. Partners can innovate other dyed drinks and become an alternative creative business in the village of Bawuran.
4. Partners are increasingly knowledgeable about the potential of local food and diversification of spices.
   The advice we can give is the need for assistance from the local government regarding product marketing channels to be included in events, and the need for help on how to cultivate spices and butterfly pea flowers well.

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