**Tasks for the development of ISMS.**

**A. Development steps:**

1. Creation of design of the highest level (upper level). - **2 days (01-03.11.2019)**

2. Development of UML design (roles). - **5 days (04-09.11.2019)**

3. Development of a table model. – **5 days (09-14.11.2019)**

4. Development of the application interface. - **7 days (15-22.11.2019)**

5. Implementation of the application (integration, functionality). - **7 days (22-29.11.2019)**

6. Test application. - **3 days (30.11-02.12.2019)**

7. Production. - **3 days (02-05.12.2019)**

**B. Reporting Section (with recommendation of Tom Sheng):**

1. Calculation of water demand should be done at each WUA and 10 irrigation systems. (Intakes from the Kafirnigan River and 44 Cham). Each WUA must have its own ID code, area, culture and need.

2. Calculation of water demand, based on the application of the WUA for water in the GUMI.

3. The volume of water demand for each head water intake (consolidated).

4. A form that will summarize 10 water intakes.

5. For each water intake, information on the level and volume of water (fact).

6. The use of the curve as a function of Q (flow rate) versus h (level).

7. At gauging stations, determine the actual water withdrawal at gauging stations.

8. Summarize for all WUAs and for a specific channel.

9. The result should be:

1. How many are taken from the river.

2. How many WUAs have taken.

3. How much is output (reset).

4. Calculation of the remaining water in the WUA.

10. Information about Dekhkan farms, the amount of payment for each WUA (plan) must be Integrated with the billing system (in fact).

11. All standard reporting forms from the GUMI should automatically exit. (forms to be taken from Kholiyorov I.)

**C. Technical Section:**

1. Make a single site interface design.

2. Add a basin level to the application.

3. Convert regions to irrigation sector.

4. Make an inputs to (basins, rivers, gauging stations, crops, WUAs)

5. The calculation must be according to the tables of the water supply plan I. Kholiyorov

6. Integration of data from 49 flowmeters to IMIS.

7. Use a schematic diagram for Kafirnigan and Zarafshan as a map.

8. Develop graphic and tabular displays of real data.

9. Develop a reporting module.

10. Finalize the import / export of data.

11. Prepare manuals for using the system (admin / user)