On OPATEL Project

3rd Training Workshop

Instructional design, implementation and evaluation of e-learning system: The experience of Tehran University of Medical Sciences in Iran

2-5 December, 2018
Tehran, Iran

Center of Excellence for e-Learning in Medical Education

Virtual School - Tehran University of Medical Sciences

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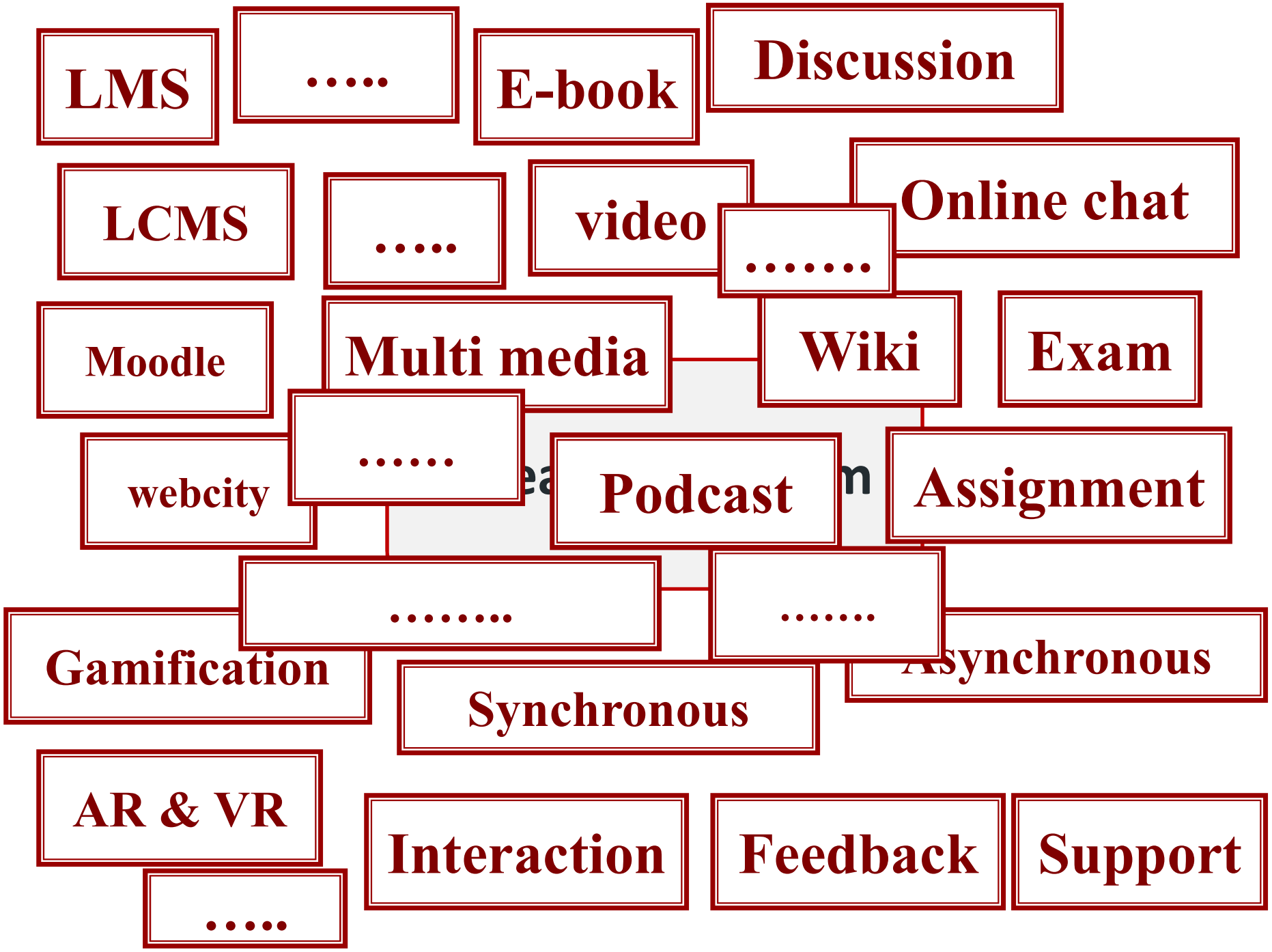
Medical Sciences

How to implement …
e-learning system


LMS
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E-book
Discussion
LCMS
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video
Online chat
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Moodle
Multi media
Wiki
Exam
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webcity
Podcast
Assignment
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Gamification
Synchronous
Asynchronous
AR & VR
Interaction
Feedback
Support
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How to decide?

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The key factor for success of an e-learning system is to determine:

Who, What, When,

Where, Why and How

aspects of the system.

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What does it mean?

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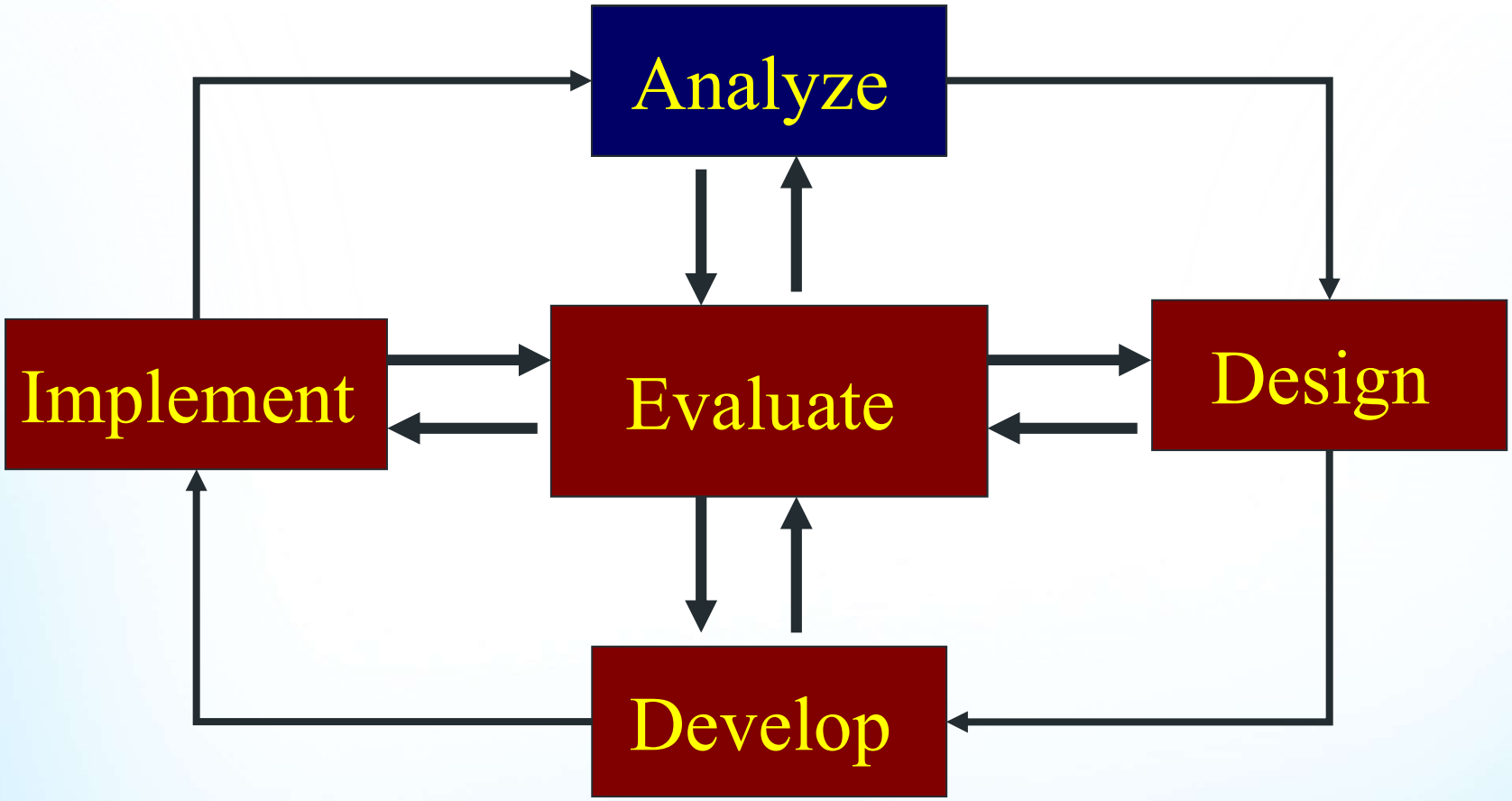
E-Learning System Design



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TEAM WORK

What do you do in analysis phase?

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E-Learning System Design

- Review of literature and similar systems
- context & culture analysis
- Learner and instructor analysis
- Educational needs analysis
- Regulations
- IT infrastructure analysis
- costs
- …

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Some key questions in analysis phase

☞ Who is in charge?

- Who is paying for the project?
- Who is the final authority?

If your project depends on X's approval, then you need to know what X wants before you spend a lot of time developing the e-learning system.

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Some key questions in analysis phase

Analyze | Design | Develop | Implement | Evaluate

☞ **What are the objectives and how will this e-learning help you meet them?**

- What do you want to do?
- Will this system help you do it?

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Some key questions in analysis phase

Analyze — Design — Develop — Implement — Evaluate

- **What do you expect people to do that's different?**
  - **Do they have enough competencies?**
  - **Do they need special support?**

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Some key questions in analysis phase

Analyze | Design | Develop | Implement | Evaluate

☞ When is the e-learning system needed?

- How much time do you **need**?
- How much time do you **have**?

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Some key questions in analysis phase

Analyze | Design | Develop | Implement | Evaluate

☞ What do you know about the learner?

- How e-learning would help them?
- What are their expectations?

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Some key questions in analysis phase

☞ What do you know about the instructors?

- What do they think of e-learning?
- What are their expectations?
- Do they need special training?

Some key questions in analysis phase

Analyze | Design | Develop | Implement | Evaluate

☞ **What do you know about the content?**

- **Which types of e-content do you need?**
- **What are the needed facilities?**

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Some key questions in analysis phase

☞ What are some of the technology issues?

- Do the users have access to computers and internet?
- How should you select your LMS?
- How much multimedia can your network handle?

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TEAM WORK

What would be your short and long term goals for e-learning implementation or dissemination?

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Experience of TUMS

Determined goals in TUMS in 8 years ago

- Provide a user friendly LMS
- Developing faculty development programs regarding e-teaching
- Reaching the rate of 20% of faculty members who use e-learning system within 3 years
- …

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Workshop's concept map

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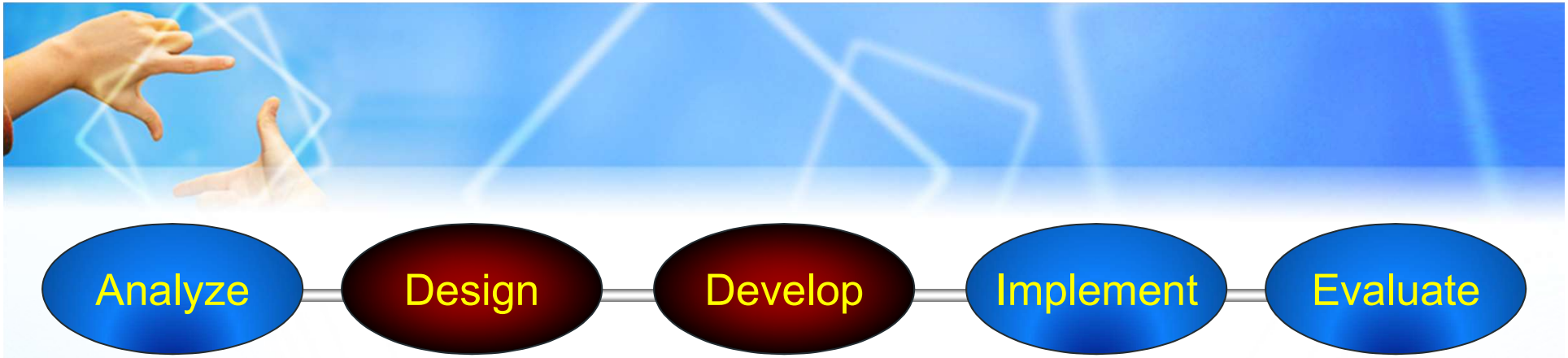

- Identifying goals
- Provide LMS & other facilities
- Develop e-contents
- Determining e-Teaching strategies
- Students and instructors' Support systems
- Developing regulations
- …

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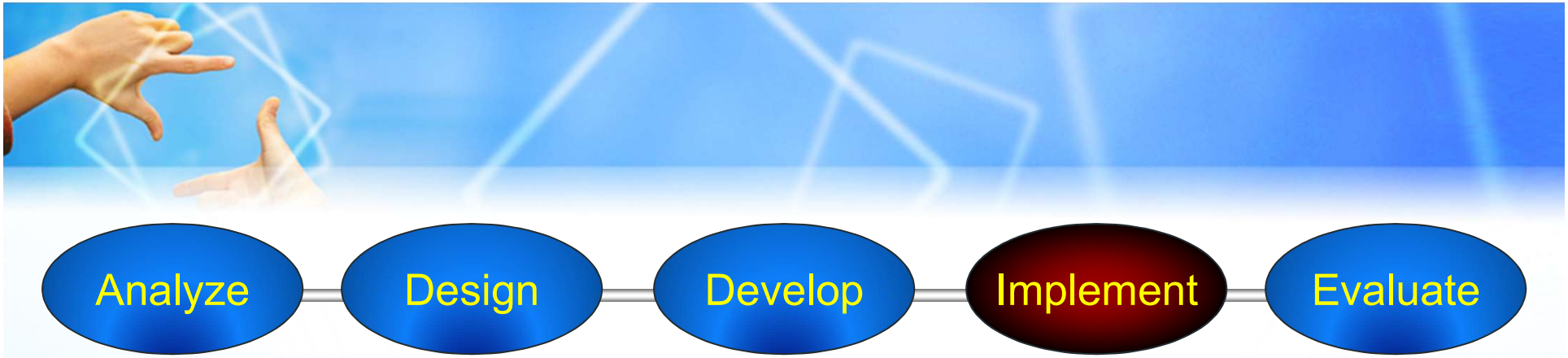

- **Unexpected issues**
- **Action plan check lists**
- **…**

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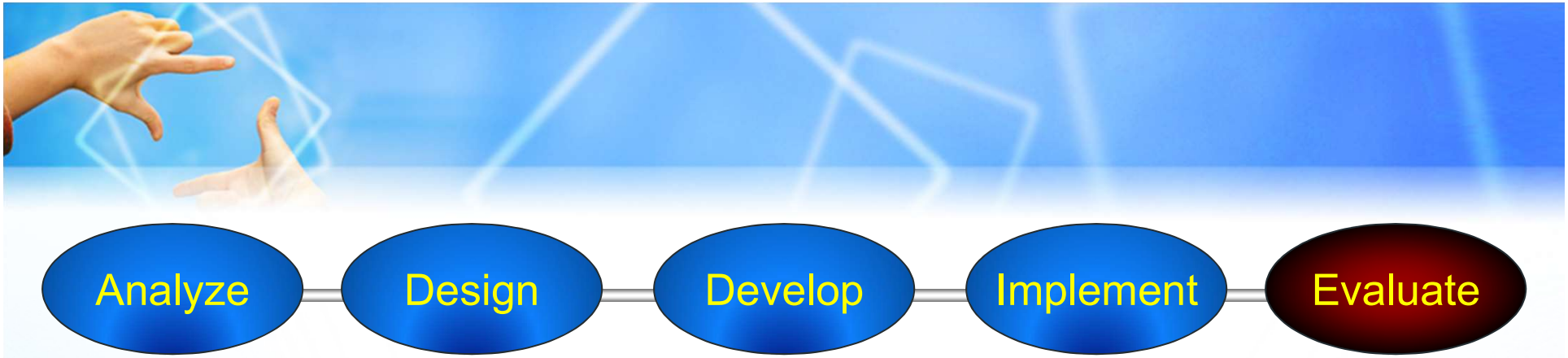

- **Learner evaluation**
- **Instructor evaluation**
- **Program evaluation**
- **LMS evaluation**
- **…**

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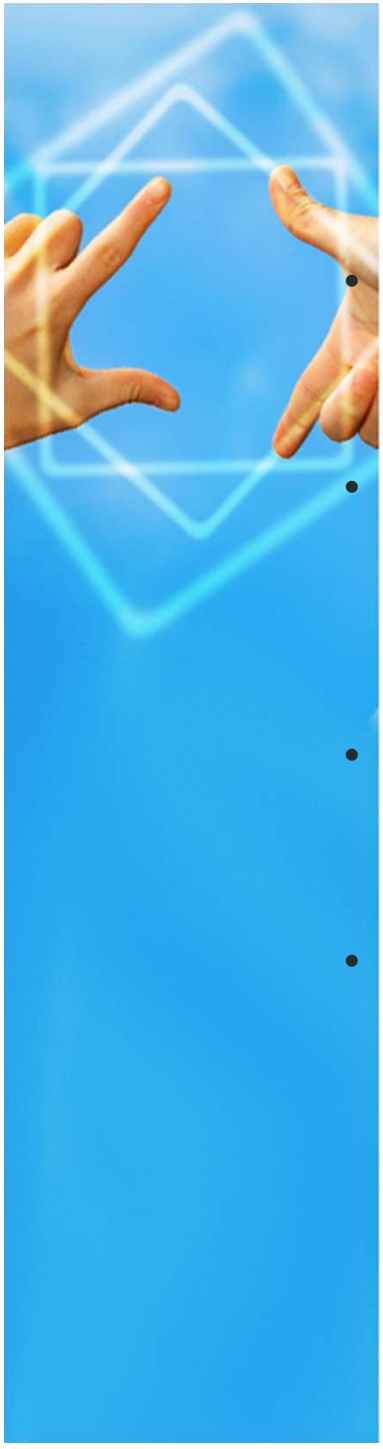

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Some Iranian traditional sweets

Gaz

Sohan

Baklava

Traditional ice cream

Souvenirs of Iran

Saffron

Some Iranian handicrafts

Silver and Gold

Iranian Carpet and Rug

Persepolis in Iran