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Pre-Project GUI Development Technical Checklist

(What smart teams need to know before they get started.)

To set your next GUI project up for success, it is important to begin with some basic understanding of what your GUI needs will be. Your Marketing and User Experience team are undoubtedly working on what the GUI needs to look like and what features need to be included. As a member of the GUI development team—responsible for getting their visions to production. Here is a checklist you can use to ensure you are covering all the bases for your next GUI project.

1 Embedded Processor

How powerful is your processor?

Has this processor been used before?   Yes   No

Is your processor or similar silicon readily available?   Yes   No

How much memory (RAM, Flash) will be available?

Is there flexibility to consider other processors or configurations?   Yes   No

2 Display and Graphics

How many displays in your device?

For each display, list:

Display Size	Orientation	Resolution	Color Depth	Refresh Rate

Types of touch input/stimulus required?

Which graphics authoring tools/formats will be used?

Does your current toolchain allow you to import designs from these tools?   Yes   No

Do you have screenshots of sample graphics?   Yes   No

Do graphics need to be scalable at runtime?   Yes   No

Is 3D desired?   Yes   No

Which 3D authoring tools are being used?

Does your current toolchain have 3D capabilities   Yes   No

Is video required?   Yes   No

Have you selected a graphics pipeline (or pipelines)?   Yes   No

3 Tools and Operating System

What software tool chain is required?

Is there flexibility to use another software tool chain?   Yes   No

Does your current toolchain provide support for your selected embedded processor?   Yes   No

When is board support package available?

What real-time operating system (RTOS), if any, is required?

Is there flexibility to use another RTOS?   Yes   No

Will the device have a file system?   Yes   No

4 Language Requirements

Are multiple languages required?   Yes   No

How Many?

Which Languages?

Does that language need to change at run-time?   Yes   No

Is the text in the design static?   Yes   No

Will all text strings be known at design time?   Yes   No

Are right to left languages required?   Yes   No

Are there other font or text handling requirements?

5   Program Description and Requirements

Is there a user acceptance design available?   Yes   No

What are performance requirements?

Meet certain safety or quality standards?   Yes   No

Which safety standard(s)?

Which quality standard(s)?

6   Now what?

If you have all this information locked in, then you are well on your way to getting your next GUI project off to its best start. If you are ready to select a GUI development solution, consider Altia! Companies all over the world trust Altia software and engineering services to get a first-rate GUI from concept to production.

Of course, if you need help walking through the list, the best thing to do is to talk to experts about your project goals. Contact Altia today to help you complete your checklist and discuss how you can get your next great GUI to market with us.